





KLEINFELDER

May 26, 1988

Project 50-1014-03

Mr. Hank Yacoub
California Regional Water Quality Control Board
Los Angeles Region
107 South Broadway, Room 4027
Los Angeles, California 90012-4596

QUARTERLY SAMPLING REPORT
FEBRUARY 1988
SOUTHERN CALIFORNIA CHEMICAL COMPANY
8851 Dice Road,
Santa Fe Springs, California

Dear Mr. Yacoub:

Attached to this letter is our quarterly sampling report of the Southern California Chemical Company, Inc., Santa Fe Springs facility. The report includes the results of analyses of water samples and water level measurements obtained on February 2, 3, and 4, 1988, from the onsite monitoring wells. The February 1988 chemical data indicated that there was a discrepancy between the historic background concentrations and current concentrations of total chromium. As a result, all on-site wells were resampled on May 3, 4, and 5, 1988 and analyzed for total chromium. The results from this resampling and a discussion of the reason for the discrepancy is included in this report. This report also contains sampling protocols used during sampling and analysis.

We trust the information in the report meets your needs at this time. Should you have any questions, please feel free to contact us at your convenience.

Very truly yours,

Kleinfelder

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**QUARTERLY SAMPLING REPORT
SOUTHERN CALIFORNIA CHEMICAL COMPANY
SANTA FE SPRINGS, CALIFORNIA**

PROJECT 50-1014-03

**PREPARED FOR
SOUTHERN CALIFORNIA CHEMICAL COMPANY
8851 DICE ROAD
SANTA FE SPRINGS, CALIFORNIA**

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May 1988

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1 INTRODUCTION

Included in this report is a summary of laboratory analyses of water samples and water level measurements obtained during February 2, 3, and 4, 1988 from the groundwater monitoring wells at the Southern California Chemical Company facility. Plate 1 shows the site in relation to the surrounding area. Included for comparison are the results of our previous water samplings.

Groundwater sampling at the subject site began in February 1985 to assess and aid in mitigation of a chromium and cadmium plume located in the vicinity of monitoring well MW-4 (see Plate 2). Subsequently, a quarterly groundwater sampling program was started in March of 1986. The purpose of the quarterly sampling program is to monitor and establish a data base for monitoring the compounds in the groundwater beneath the site. The most important aspects of this program are: (a) assessment of location and concentrations of the chromium and cadmium plume; (b) detection and evaluation of water-quality changes; and (c) characterization of background water quality.

This report includes the data obtained from the February 1988 sampling, which is the eighth quarterly sampling period for the site, as well as all previous sampling data. The original laboratory reports and chain-of-custody records of the February 1988 sampling run are included in the appendices. The ninth quarterly sampling is scheduled for June 1988, to be followed by a report to the Regional Water Quality Control Board by July 1988.

2 MONITORING WELL SAMPLING

Sampling was performed by a Kleinfelder environmental technician using the Kleinfelder groundwater sampling vehicle.

All wells are measured for static water level prior to sampling. The wells were purged and sampled by using an air-activated submersible pump (bladder pump). To minimize the potential for cross-contamination, the pump and sample lines were thoroughly decontaminated before sampling and between wells, as described in Appendix A.

Twelve monitoring wells were sampled as part of this program. Eleven of the twelve wells sample groundwater from the uppermost portion of the first aquifer beneath the site. Well MW-4A is perforated in the lowest portion of the same aquifer.

As customary, the Regional Water Quality Control Board was notified prior to sampling and was provided the opportunity to observe sampling and to collect duplicate or split samples.

3 LABORATORY TESTING

Analytical testing was performed by Chemical Research Laboratories of Garden Grove, California. Quality assurance testing was provided by Brown and Caldwell Laboratories of Pasadena, California.

Laboratory testing for the February 1988 quarterly sampling consisted of analyzing of about 322 water samples. The primary laboratory, Chemical Research Laboratories, analyzed 300 monitoring well samples, 10 quality control samples, and 2 spiked samples. The quality assurance laboratory, Brown and Caldwell Laboratories analyzed 8 split monitoring well samples, and 2 spiked samples. Spike samples were provided by Analytical Technologies, Inc. of San Diego, California.

The results of the testing are summarized in Tables 1 through 12. Individual test results are included in Appendix B and chain-of-custody records are included in Appendix C.

4 QUALITY CONTROL

To monitor the validity of the chemical data, the following quality assurance measures were employed.

4.1 DUPLICATE SAMPLES

Duplicate samples were taken at each sampling site. This ensures that if breakage or trouble with the testing equipment occurs, there is a backup sample for testing. This also allows for a recheck on results if there is an inconsistency or if confirmation of results becomes necessary.

4.2 SPLIT SAMPLE TESTING

Split samples were collected and analyzed on four of the twelve monitoring wells. Monitoring wells MW-3, MW-4, MW-10, and MW-11 were analyzed by both laboratories. Table 13 summarized the comparison of the split samples. Samples were also provided to the Department of Health Services, Southern California Laboratory. The results from their analyses are also presented in Table 13.

4.3 CROSS-CONTAMINATION TESTING

Quality control (QC) samples were collected to verify that cross-contamination between wells was not occurring during sampling. Samples were collected prior to sampling of the first well and again between selected subsequent wells by the protocol described in Appendix A. The sequence of sampling and the compounds detected in the quality control samples are given in Table 14. The compounds with elevated concentrations in the monitoring wells (ethyl benzene, trichloroethylene, 1,1-dichloroethane, etc.) were non-detected at 1.0 $\mu\text{g/l}$ in the quality control samples. This indicates that the monitoring well sample cross contamination did not occur by the sampling system.

4.4 SPIKED SAMPLE TESTING

Analytical Technologies, Inc. of San Diego, California supplied a set of spiked samples. Samples were spiked with toluene at 88 $\mu\text{g/l}$, trichloroethylene at 70 $\mu\text{g/l}$, and ethyl benzene at 81 $\mu\text{g/l}$. Table 15 gives the percent recovery by each laboratory for these compounds. Percent recovery from the calculated concentration ranged from 57 to 100 percent, which indicates an acceptable degree of accuracy.

4.5 SAMPLE CONTROL

All samples were labeled during sampling and shipped refrigerated to the laboratories. A chain-of-custody form was maintained for all samples taken. Copies of these forms are included in Appendix C.

5 GROUNDWATER LEVELS

Depth to groundwater was measured prior to sampling of each monitoring well. The February 1988 measurements and all prior measurements are listed in Table 16. With the exception of monitoring well MW-4A, the groundwater surface rose in elevation beneath the facility from the previous quarter. Water level rise ranged from 0.07 feet to 1.28 feet. The groundwater surface elevation in monitoring well MW-4A declined by 0.45 feet from the previous quarter. Plate 3, "Groundwater Contour Map", illustrates the direction of groundwater flow beneath the study site.

6 GROUNDWATER QUALITY

6.1 EPA INDICATOR PARAMETERS

40 CFR 265.92(b)3 requires that the pH, specific conductance, total organic carbon (TOC), and total organic halogen (TOX) be analyzed as indicators of groundwater quality. These indicator measurements have remained relatively consistent with previous concentrations. The exception is the total organic carbon in monitoring well MW-3. Concentration of TOC in MW-3 increased from 50 mg/l to 135 mg/l, which corresponded to an increase in the organic compounds in this well.

6.2 ORGANIC COMPOUNDS

Organic chemicals have not been used on-site by Southern California Chemical Company during production processes. However, a number of organic compounds exist in the groundwater beneath the site. A large increase in the organic concentration in monitoring well MW-3 occurred since the previous sampling. Ethyl benzene increased from 290 $\mu\text{g/l}$ to 8500 $\mu\text{g/l}$, toluene increased from non-detected at 0.5 $\mu\text{g/l}$ to 8,500 $\mu\text{g/l}$, and total xylene increased from non-detected at 0.5 $\mu\text{g/l}$ to 23,000 $\mu\text{g/l}$. The ethyl benzene, toluene, and total xylenes concentrations are shown on Plates 4, 5, and 6 respectively. It should be noted that monitoring well MW-3 is an upgradient well located along the northern property boundary of the site. As these data indicate, and as discussed in previous report, the suspected source for the organic chemicals is the neighboring facility.

6.3 SITE SPECIFIC INDICATOR CHEMICALS

Hexavalent chromium exists at elevated concentrations in monitoring well MW-4. Chromium concentrations were originally detected in MW-4 at 500 mg/l in February 1985. Subsequent concentrations have fluctuated between 61 mg/l and 550 mg/l. As of February 1988 hexavalent chromium existed at 140 mg/l in MW-4. Elevated concentrations of hexavalent chromium also exist in MW-9. Hexavalent chromium was first detected in MW-9 at 0.12 mg/l in June 1987 and has increased to 1.3 mg/l in February 1988. Hexavalent chromium was below the detection limit of 0.1 mg/l in the remaining on-site wells.

Historically, total chromium concentrations, except for monitoring wells MW-4 and MW-9, were below the detection limit of 0.04 mg/l. During the February 1988 sampling period, total chromium was detected at concentrations between 0.10 and 0.02 mg/l in the remaining on-site wells.

The reason for the increase in total chromium concentrations is most likely due to a change in the sample preparation method and not a change in the groundwater quality. EPA Method 3010, which is described in EPA document SW 846 is the methodology used to prepare water samples to be analyzed for total metals. Method 3010 requires that the sample be "well mixed" prior to removal of the sample from the collection bottle. This mixing of the sample suspends the fine sediments that were collected during sampling.

Brown and Caldwell, the previous primary laboratory, was using a modification of EPA Method 3010 for sample preparation in which the sample was not mixed prior to analysis. This modification of Method 3010 was suggested as the "common sense" approach by personnel of the Department of Health Services, Southern California Laboratory.

Chemical Research Laboratory, the current primary laboratory, used method 3010 exactly as stated in SW 846 document. Hence, mixing of the sample yielded total chromium concentrations which include the suspended sediments.

In summary, the changes found in total chromium were suspected to be most likely related to a change in sample preparation method and not a change in groundwater quality. To evaluate if this was the case, the monitoring wells were resampled for chromium in early May 1988. Samples were collected by the same protocol as in previous samples. The only difference was that these samples were field filtered through a 0.45 micrometer filter prior to placement into the sample container.

The results from the resampling and the February 1988 sampling are listed below.

Monitoring Well	Total Chromium February 1988	Total Chromium May 1988
MW-1	0.08 mg/l	ND .02 mg/l
MW-2	0.05 mg/l	ND .02 mg/l
MW-3	0.08 mg/l	ND .02 mg/l
MW-4	140. mg/l	238. mg/l
MW-4A	0.03 mg/l	0.02 mg/l
MW-5	0.10	ND .02 mg/l
MW-6B	0.02	ND .02 mg/l
MW-7	0.02 mg/l	ND .02 mg/l
MW-8	0.03 mg/l	ND .02 mg/l
MW-9	1.30 mg/l	2.42 mg/l
MW-10	0.08 mg/l	0.05 mg/l
MW-11	0.04 mg/l	ND .02 mg/l

The data confirm our previous suspicion that the "background" concentrations of chromium detected during the February 1988 sampling were related to the change in sample preparation methods and not a change in water quality.

7 LIMITATIONS

This report is based on:

1. The observations of our field personnel
2. The results of laboratory tests performed by Brown & Caldwell Laboratory and Chemical Research Laboratories
3. Measurements of groundwater elevations in the 12 monitoring wells
4. Referenced documents

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors. The services performed by Kleinfelder have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the Los Angeles County area. No other warranty, expressed or implied, is made.

Respectfully submitted,

Kleinfelder



Kenneth L. Durand
Project Hydrogeologist



John F. Ficke, P.E.
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SOUTHERN CALIFORNIA CHEMICAL CO., INC.

MONITORING WELL #1

		DATE SAMPLED											
		2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND		E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)	7.3		7.1		7.2	7.0	7.38	6.8	7.0	6.9	7.1		
TDC (ug/l)	3.7		19		35	21	ND 3	ND 3	13	32	10		
TOX (ug/l)	ND .05		ND .08		ND .08	ND .08	ND .08	ND .08	ND .08	ND .08	ND .08	0.1	
SP. COND. (umhos/cm)	2300		3400		1650	3600	3200	2800	3400	3800	2975		
Site Specific Indicator Chemicals													
CHROMIUM (TOTAL) (ug/l)	ND .0005		ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04	0.08	ND .02	
CHROMIUM (HEX) (ug/l)	ND .05		ND .02		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1		
CADMIUM (ug/l)	ND .0002		ND .009		ND .02	ND .01	ND .01	ND .01	ND .01	ND .02	ND .02		
COPPER (ug/l)	ND .08		ND .02		ND .01	ND .04	ND .04	ND .02	0.10	ND .02	0.04		
ZINC (ug/l)	ND .019		0.18		0.04	ND .08	0.018	ND .03	0.06	ND .03	0.04		
CHLORIDE (ug/l)	330		300		650	920	700	570	720	770	430		
NITRATE as N (ug/l)	7.0		3.7		0.5	1.3	4.06	5.3	ND .1	2.3	4.5		
NITRATE as NO3 (ug/l)	31		17		18	11	18	23	ND .4	11	19		
NOTE: ND 1 = Chemical was not detected at 1 ug/l.													
Organic Compounds (E.P.A. Method 624)													
1,1-DICHLOROETHANE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
1,1-DICHLOROETHYLENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
1,2-DICHLOROETHANE (ug/l)			ND 1		ND 1	2	1	0.5	1	1	ND 1		
BENZENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND .7		
CARBON TETRACHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
CHLOROFORM (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
ETHYL BENZENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
TRICHLOROETHYLENE (ug/l)			16		16	18	18	9	11	2.4	4		
TOLUENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
XYLENE (ug/l)			ND 1		ND 1	ND 1	----	ND .5	ND .5	ND .5	ND 1		
METHYLENE CHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND 2	ND .5	1.7	ND 1		
NOTE: ND 1 = Compound was not detected at 1 ug/l.													

TABLE 2

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #2

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)	7.0		7.4		7.7	7.4	7.68	7.1	7.1	7.12	7.27	
TOC (mg/l)	34		4.8		ND 3	ND 3	ND 3	ND 3	ND 3	ND 3	ND 1	
TOX (mg/l)	ND .05		ND .08		ND .08	ND .08	ND .08	ND .08	ND .08	ND .08	0.04	
SP. COND. (umhos/cm)	2300		1900		1800	2100	2280	1900	3400	1500	1550	
Site Specific Indicator Chemicals												
CHROMIUM (TOTAL) (mg/l)	ND .0005	ND .033	ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04	0.05	ND .02
CHROMIUM (HEX) (mg/l)	ND .05	ND .033	ND .03		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1	
CADMIUM (mg/l)	ND .0002		ND .009		ND .01	ND .03	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .04	ND .02	ND .02	ND .02	0.04	
ZINC (mg/l)	ND .019		ND .03		ND .04	ND .08	0.021	ND .031	ND .031	ND .03	0.03	
CHLORIDE (mg/l)	270		180		220	410	510	250	700	180	110	
NITRATE as N (mg/l)	2.1		5.8		5.4	5.0	6.25	7.2	8.8	7.2	7.2	
NITRATE as NO3 (mg/l)	9.1		26		24	22	27.7	32	39	32	32	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)		4	3		ND 1	5	9	21	20	2.5	ND 1	
1,1-DICHLOROETHYLENE (ug/l)		3	ND 1		ND 1	3	5	0.9	11	0.94	ND 1	
1,2-DICHLOROETHANE (ug/l)		ND 1	ND 1		3	1	ND 1	ND .5	2.2	ND .5	ND 1	
BENZENE (ug/l)		ND 1	ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND .7	
CARBON TETRACHLORIDE (ug/l)		ND 1	ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
CHLOROFORM (ug/l)		ND 1	ND 1		ND 1	2	2	1	ND .5	0.73	ND 1	
ETHYL BENZENE (ug/l)		ND 1	ND 1		3	2	ND 1	ND .5	6.2	ND .5	ND 1	
TRICHLOROETHYLENE (ug/l)		21	22		12	38	67	20	93	40	5	
TOLUENE (ug/l)		ND 1	ND 1		3	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
XYLENE (ug/l)		ND 1	ND 1		2	ND 1	---	ND .5	ND .5	ND .5	ND 1	
METHYLENE CHLORIDE (ug/l)		ND 1	ND 1		ND 1	ND 1	ND 1	ND 2	ND .5	11	ND 1	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 3
SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #3

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)	7.4		7.0		7.2	7.2	7.55	6.9	7.0	5.9	6.78	
TOC (mg/l)	16		190		44	29	31	20.5	21	50	135	
TOX (mg/l)	0.17		ND .08		.18	.17	.21	.22	.15	.27	.10	
SP. COND. (umhos/cm)	1700		1500		2200	2200	2400	2300	2200	3300	1575	
Site Specific Indicator Chemicals												
CHROMIUM (TOTAL) (mg/l)	ND .0005	ND .033	ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04	.08	ND .02
CHROMIUM (HEX) (mg/l)	ND .05	ND .033	ND .02		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1	
CADMIUM (mg/l)	ND .0002	ND .011	ND .009		ND .01	ND .01	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .04	ND .02	0.02	ND .02	ND .02	
ZINC (mg/l)	ND .019		0.26		ND .04	ND .08	0.021	ND .031	ND .031	ND .03	ND .02	
CHLORIDE (mg/l)	170		76		400	520	550	420	380	740	190	
NITRATE as N (mg/l)	3.0		ND 1		6.5	4.1	4.81	3.4	3.8	5.2	ND .2	
NITRATE as NO3 (mg/l)	13		ND 4.4		29	18	21.3	15	17	23	ND 1	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)		6	ND 50	5	4	5	5	4	1.6	6.9	ND 10	
1,1-DICHLOROETHYLENE (ug/l)		14	ND 50	11	7	13	17	7.8	3.9	15	ND 10	
1,2-DICHLOROETHANE (ug/l)		ND 1	ND 50	9	6	7	11	18	2.1 1	ND .5	36	
BENZENE (ug/l)		9	ND 50	3	ND 1	3	2	ND .5	ND .5 1	ND .5	ND 10	
CARBON TETRACHLORIDE (ug/l)		73	ND 50	78	110	58	87	50	73	87	ND 10	
CHLOROFORM (ug/l)		46	ND 50	36	97	33	45	20	22 1	ND .5	ND 10	
ETHYL BENZENE (ug/l)		ND 1	95,000	1100	ND 1	310	4	ND .5	ND .5	290	8500	
TRICHLOROETHYLENE (ug/l)		320	ND 50	160	170	200	160	98	70	150	14	
TOLUENE (ug/l)		2	15,000	11	ND 1	ND 1	ND 1	ND .5	ND .5 1	ND .5	8500	
XYLENE (ug/l)		ND 1	20,000	2000	ND 1	10	----	ND .5	ND .5 1	ND .5	23000	
METHYLENE CHLORIDE (ug/l)		ND 1	ND 50	ND 1	ND 1	2	ND 1	ND 2	ND 2	9.6	ND 10	

NOTE: ND 1 = Chemical was not detected at 1 mg/l.

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 4

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #4

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)	6.3		7.1		7.1	6.6	7.4	6.7	6.3	6.3	6.6	
TOC (mg/l)	36		26		110	79	98	26.5	133	90	46	
TOX (mg/l)	ND .05		.26		.19	2.3	1.40	.68	2.10	1.3	.36	
SP. COND. (umhos/cm)	6400		3600		3500	4250	4950	4000	11,000	7300	4625	
Site Specific Indicator Chemicals												
CHROMIUM (TOTAL) (mg/l)	500	550	61		120	180	170	98	440	190	140	238
CHROMIUM (HEX) (mg/l)	500	500			120	180	170	100	430	232	140	
CADMIUM (mg/l)	0.78	0.92	0.035		0.04	0.09	0.07	0.05	ND .01	.33	.06	
COPPER (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .03	ND .02	ND .02	ND .02	ND .03	
ZINC (mg/l)	0.06		ND .03		ND .04	ND .08	ND .007	ND .03	ND .03	ND .03	ND .03	
CHLORIDE (mg/l)	2300		1100		770	1300	1400	960	3500	1800	790	
NITRATE as N (mg/l)	18	12	ND 13		0.5	1.3	1.1	ND .1	ND .7	1.3	.2	
NITRATE as NO3 (mg/l)	81	55	ND 55		2.4	5.6	5.0	ND .4	ND 3	5.8	1.1	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)		100	100	42	57	61	120	27	110	120	70	
1,1-DICHLOROETHYLENE (ug/l)		100	42	34	41	61	67	20	94	110	56	
1,2-DICHLOROETHANE (ug/l)		ND 50	17	34	61	12	140	74	74	100	35	
BENZENE (ug/l)		ND 50	16	9	ND 1	ND 10	5	ND 5	ND 5	ND .5	ND 14	
CARBON TETRACHLORIDE (ug/l)		ND 50	ND 1	ND 1	ND 1	ND 10	ND 1	ND 5	ND 5	1.5	ND 20	
CHLOROFORM (ug/l)		ND 50	7	3	8	10	12	6.2	30	23	ND 20	
ETHYL BENZENE (ug/l)		3000	36	50	1100	670	220	160	1500	380	70	
TRICHLOROETHYLENE (ug/l)		550	140	170	200	280	290	180	280	190	110	
TOLUENE (ug/l)		8300	130	25	330	260	220	240	3700	580	180	
XYLENE (ug/l)		10,000	100	30	300	300	300	731	2700	570	200	
METHYLENE CHLORIDE (ug/l)		100	12	ND 1	17	ND 10	ND 1	27	140	110	ND 20	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 5

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #4A

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)		6.8	7.5		7.6	7.5	7.7		7.7	7.2	7.3	
TOC (ug/l)		40	8.3		ND 3	ND 3	ND 3		ND 3	ND 3	ND 1	
TOX (ug/l)		ND .05	ND .08		ND .08	ND .08	ND .08		.14	ND .03	ND .01	
SP. COND. (uohms/cm)		1500	1500		850	1400	1525		1600	1700	1662	
Site Specific Indicator Chemicals												
CHROMIUM (TOTAL) (ug/l)		ND .03	ND .03		ND .03	ND .03	ND .03		ND .04	ND .04	.03	.02
CHROMIUM (HEX) (ug/l)		ND .5			ND .02	ND .02	ND .02		ND .02	ND .02	ND .1	
CADMIUM (ug/l)		ND .01	ND .01		ND .01	ND .01	ND .01		ND .01	ND .02	ND .02	
COPPER (ug/l)			ND .02		ND .02	ND .04	ND .03		ND .02	ND .02	ND .02	
ZINC (ug/l)			ND .03		ND .04	ND .08	ND .007		ND .03	ND .03	ND .02	
CHLORIDE (ug/l)			100		110	120	130		160	129	97	
NITRATE as N (ug/l)		4.5	7.5		6.1	4.7	6.3		5.4	6.1	3.8	
NITRATE as NO3 (ug/l)		20	33		27	21	28		24	27	17	
NOTE: ND 1 = Chemical was not detected at 1 ug/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)			13		11	3	19		140	1.2	ND 1	
1,1-DICHLOROETHYLENE (ug/l)			1		2	ND 1	2		50	ND .5	ND 1	
1,2-DICHLOROETHANE (ug/l)			ND 1		ND 1	ND 1	2		1.5	ND .5	ND 1	
BENZENE (ug/l)			8		ND 1	ND 1	ND 1		ND .5	ND .5	ND .7	
CARBON TETRACHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1		ND .5	ND .5	ND 1	
CHLOROFORM (ug/l)			ND 1		ND 1	ND 1	2		17	ND .5	ND 1	
ETHYL BENZENE (ug/l)			ND 1		ND 1	ND 1	ND 1		ND .5	ND .5	ND 1	
TRICHLOROETHYLENE (ug/l)			8		7	3	12		82	3.2	ND 1	
TOLUENE (ug/l)			ND 1		ND 1	ND 1	ND 1		1.5	ND .5	ND 1	
XYLENE (ug/l)			ND 1		ND 1	ND 1	---		ND .5	ND .5	ND 1	
METHYLENE CHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1		11	ND .5	ND 1	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 6

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #5

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Parameters (CFR 40 265.92)											
pH (Units)	7.3		7.4		7.3	7.3	7.82	6.9	7.0	7.6	7.06	
TOC (mg/l)	ND 3		4.8		5	3	ND 3	ND 3	ND 3	5	7	
TOX (mg/l)	.19		.16		.65	.18	.30	.45	.36	ND .03	.3	
SP. COND. (umhos/cm)	1700		1200		1400	1100	1220	1400	1400	1300	1537	
Site Specific Indicator Parameters												
CHROMIUM (TOTAL) (mg/l)	ND .0005		ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04	.1	ND .02
CHROMIUM (HEX) (mg/l)	ND .05		ND .02		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1	
CADMIUM (mg/l)	ND .0002		ND .0009		ND .01	ND .01	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .04	ND .02	ND .02	ND .02	ND .02	
ZINC (mg/l)	ND .019		0.18		ND .04	ND .08	ND .001	ND .031	ND .03	ND .03	.4	
CHLORIDE (mg/l)	2.0		66		79	290	143.5	110	110	100	90	
NITRATE as N (mg/l)	0.42		8.8		12	8.6	11.13	10	15	3.4	5	
NITRATE as NO3 (mg/l)	1.9		39		55	38	49.3	45	65	24	22	
NOTE: ND 1 = Compound was not detected at 1 ug/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)	ND 1	ND 1		2	2	7	4	5.4	.29	ND 1		
1,1-DICHLOROETHYLENE (ug/l)	ND 1	ND 1		3	3	4	2.7	5.2	.25	ND 1		
1,2-DICHLOROETHANE (ug/l)	ND 1	ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .3	ND 1		
BENZENE (ug/l)	5	ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND .7		
CARBON TETRACHLORIDE (ug/l)	3	11		45.5	37	68	100	120	99	20		
CHLOROFORM (ug/l)	2	10		14.5	16	43	48	50	95	10		
ETHYL BENZENE (ug/l)	ND 1	ND 1		ND 1	6	ND 1	ND .5	ND .5	ND .5	ND 1		
TRICHLOROETHYLENE (ug/l)	10	24		64	36	70	70	59	26	5		
TOLUENE (ug/l)	1	ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1		
XYLENE (ug/l)	ND 1	ND 1		ND 1	ND 1	----	ND .5	7.3	ND .5	ND 1		
METHYLENE CHLORIDE (ug/l)	ND 1	ND 1		ND 1	ND 1	ND 1	ND 2	ND .5	4.3	ND 1		

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 7

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #6B

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)	7.6		7.4		7.5	7.8	7.6	7.1	7.4	7.1	7.13	
TOC (mg/l)	ND 3		6.5		ND 3	ND 3	ND 3	ND 3	ND 3	9	ND 1	
TOX (mg/l)	0.1		ND .08		ND .08	ND .08	ND .08	ND .08	ND .08	ND .03	.02	
SP. COND. (umhos/cm)	1400		1300		1400	1200	1425	1400	1600	1400	1265	
Site Specific Indicator Chemical												
CHROMIUM (TOTAL) (mg/l)	0.0038		ND .03		ND .03	ND .02	ND .03	ND .04	ND .04	ND .04	.02	ND .02
CHROMIUM (HEX) (mg/l)	ND .05		ND .02		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1	
CADMIUM (mg/l)	ND .0002		ND .009		ND .01	ND .01	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .03	ND .02	ND .02	ND .02	ND .02	
ZINC (mg/l)	ND .03		ND .03		ND .04	ND .08	ND .007	ND .03	ND .03	ND .03	ND .02	
CHLORIDE (mg/l)	79		220		82	100	140	92	130	94	61	
NITRATE as N (mg/l)	6.9		8.8		7.0	5.2	6.1	7	8.4	8.4	8.4	
NITRATE as NO3 (mg/l)	28		39		31	23	27	31	37	37	37	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
1,1-DICHLOROETHYLENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
1,2-DICHLOROETHANE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
BENZENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND .7	
CARBON TETRACHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
CHLOROFORM (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	ND .5	ND .5	ND 1	
ETHYL BENZENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	1.5	ND .5	ND 1	
TRICHLOROETHYLENE (ug/l)			30		19	23.5	24	21	20	33	22	
TOLUENE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	0.8	ND .5	ND 1	
XYLENE (ug/l)			ND 1		ND 1	ND 1	----	ND .5	7.9	ND .5	ND 1	
METHYLENE CHLORIDE (ug/l)			ND 1		ND 1	ND 1	ND 1	ND .5	2.6	1.2	ND 1	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 8

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #7

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/88	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)		6.3	7.3		7.4	7.2	7.3	6.5	6.8	7.3	8.94	
TOC (mg/l)		260	6.5		5	17	ND 3	43	7	5	2	
TOX (mg/l)		0.081	ND .08		ND .08	ND .08	ND .08	ND .08	.11	ND .03	.08	
SP. COND. (umhos/cm)		2700	1700		1900	5600	5850	3700	3300	5000	8500	
Site Specific Indicator Chemical												
CHROMIUM (TOTAL) (mg/l)		ND .03	ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04	.02	ND .02
CHROMIUM (HEI) (mg/l)		ND .5	ND .02		ND .02	ND .02	ND .02	ND .02	ND .02	ND .02	ND .1	
CADMIUM (mg/l)		ND .01	ND .009		ND .01	ND .01	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)			ND .02		ND .02	ND .04	ND .03	ND .02	0.08	ND .02	ND .02	
ZINC (mg/l)			ND .03		ND .04	ND .04	0.022	ND .03	0.04	ND .03	ND .02	
CHLORIDE (mg/l)		380	190		280	1800	1700	630	610	1200	1900	
NITRATE as N (mg/l)		27	5.0		4.3	2.7	4.4	19	25	1.1	ND 0.2	
NITRATE as NO3 (mg/l)		120	22		19	12	19.5	82	110	19	ND 1	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLORoETHANE (ug/l)		2			8	42	30	7.1	14	6	ND 1	
1,1-DICHLORoETHYLENE (ug/l)		ND 1			2	5	6	ND 5	6	.55	ND 1	
1,2-DICHLORoETHANE (ug/l)		ND 1			ND 1	2	ND 1	ND 5	ND .5	ND .5	ND 1	
BENZENE (ug/l)		64			ND 1	ND 1	ND 1	ND 5	ND .5	ND .5	ND .7	
CARBON TETRACHLORIDE (ug/l)		ND 1			ND 1	ND 1	ND 1	ND 5	ND .5	ND .5	ND 1	
CHLOROFORM (ug/l)		ND 1			ND 1	ND 1	ND 1	8.2	ND .5	ND .5	ND 1	
ETHYL BENZENE (ug/l)		ND 1			4	ND 1	ND 1	1.0	ND .5	ND .5	ND 1	
TRICHLOROETHYLENE (ug/l)		29			67	71	70	180	130	35	24	
TOLUENE (ug/l)		2			5	ND 1	ND 1	2.2	3.6	ND .5	ND 1	
XYLENE (ug/l)		ND 1			4	ND 1	----	ND 5	ND .5	ND .5	ND 1	
METHYLENE CHLORIDE (ug/l)		ND 1			ND 1	ND 1	ND 1	ND 5	ND .5	1.1	ND 1	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 10

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #9

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)		6.4	7.4		7.3	7.0	7.4	6.9	6.8	6.9	7.15	
TOC (mg/l)		210	14		28	2.8	24	ND 3	42	15	3	
TOX (mg/l)		0.13	.26		.12	.28	.37	.37	.48	.28	.16	
SP. COND. (umhos/cm)		2200	2800		2000	2400	2675	2500	3200	3100	2075	
Site Specific Indicator Chemical												
CHROMIUM (TOTAL) (mg/l)		ND .03	ND .03		ND .03	ND .03	ND .03	ND .04	0.12	.94	1.30	2.42
CHROMIUM (HEX) (mg/l)		ND .5	ND .02		ND .02	0.05	ND .02	ND .02	0.05	.59	1.30	
CADMIUM (mg/l)		ND .01	ND .00		ND .01	ND 1	ND .01	ND .01	ND .01	ND .02	ND .02	
COPPER (mg/l)			ND .02		ND .02	ND .04	ND .03	ND .02	ND .02	ND .02	ND .02	
ZINC (mg/l)			ND .03		ND .04	ND .08	0.018	ND .03	ND .03	ND .03	ND .02	
CHLORIDE (mg/l)		300	530		250	720	670	470	640	630	290	
NITRATE as N (mg/l)		1.4	8.8		3.2	1.4	3.72	4.1	2.9	8.4	7.2	
NITRATE as NO3 (mg/l)		6.3	39		14	6.2	16.5	18	13	37	32	
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)			99		50	360	250	110	140	130	40	
1,1-DICHLOROETHYLENE (ug/l)			18		18	200	110	44	72	84	50	
1,2-DICHLOROETHANE (ug/l)			10		13	96	52	90	69	ND .5	6	
BENZENE (ug/l)			ND 1		ND 1	ND 5	ND 1	ND .5	ND 2.5	ND .5	ND .7	
CARBON TETRACHLORIDE (ug/l)			ND 1		ND 1	ND 5	ND 1	ND .5	ND 2.5	ND .5	ND 1	
CHLOROFORM (ug/l)			20		4	30	22	10	19	28	13	
ETHYL BENZENE (ug/l)			ND 1		ND 1	ND 5	ND 1	ND .5	ND 2.5	ND .5	ND 1	
TRICHLOROETHYLENE (ug/l)			61		3	550	240	150	160	150	17	
TOLUENE (ug/l)			ND 1		ND 1	ND 5	ND 1	0.7	ND 2.5	ND .5	ND 1	
XYLENE (ug/l)			ND 1		ND 1	ND 5	----	ND .5	ND 2.5	ND .5	ND 1	
METHYLENE CHLORIDE (ug/l)			110		ND 1	ND 5	18	29	33	83	35	

NOTE: ND 1 = Compound was not detected at 1 ug/l.

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

MONITORING WELL #10

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 12

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #11

DATE SAMPLED												
	2/85 - 3/85	7/85 - 8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87 - 7/87	10/87	2/88	5/88
COMPOUND	E.P.A. Indicator Measurement (CFR 40 265.92)											
pH (Units)		6.6	7.8		7.2	7.3	7.5	7.5	7.4	7.4		7.34
TOC (mg/l)		54	13		120	156	125	26.8	58	61		12
TOX (mg/l)		ND .05	0.1		ND .08	ND .08	.12	.14	.15	ND .08		.07
SP. COND. (umhos/cm)		1600	1600		1700	1600	1800	1700	2100	1600		1895
Site Specific Indicator Chemical												
CHROMIUM (TOTAL) (mg/l)		ND .03	ND .03		ND .03	ND .03	ND .03	ND .04	ND .04	ND .04		.04
CHROMIUM (HEX) (mg/l)		ND .5			ND .02	ND .02	ND .02	ND .02	ND .02	ND .02		ND .1
CADMIUM (mg/l)		ND .01	ND .01		ND .01	ND .01	ND .01	ND .01	ND .01	ND .02		ND .02
COPPER (mg/l)			ND .02		ND .02	ND .04	ND .03	ND .02	ND .02	ND .02		ND .02
ZINC (mg/l)			ND .03		ND .04	ND .08	ND .001	ND .03	ND .03	ND .03		ND .02
CHLORIDE (mg/l)		220	230		180	230	240	170	270	110		86
NITRATE as N (mg/l)		1.2	2.5		1.1	ND 1	0.1	1.2	0.7	1.5		2.2
NITRATE as NO3 (mg/l)		5.2	11		4.8	ND .4	0.5	5.5	3.3	6.8		9.6
NOTE: ND 1 = Chemical was not detected at 1 mg/l.												
Organic Compounds (E.P.A. Method 624)												
1,1-DICHLOROETHANE (ug/l)			10	4	10	ND 200	ND 100	6.9	12	2.3		2.5
1,1-DICHLOROETHYLENE (ug/l)			8	2	5	ND 200	ND 100	5.0	11	2.6		2.3
1,2-DICHLOROETHANE (ug/l)			8	31	17	ND 200	130	95	21	89		21
BENZENE (ug/l)			ND 1	3	ND 1	ND 200	ND 100	1.5	ND .5	ND .5		ND .7
CARBON TETRACHLORIDE (ug/l)			ND 1	ND 1	ND 1	ND 200	ND 100	ND .5	ND .5	ND .5		ND 1
CHLOROFORM (ug/l)			3	3	10	ND 200	ND 100	3.3	3.5	1.0		ND 1
ETHYL BENZENE (ug/l)			13	1800	2200	6400	3300	ND .5	1200	180		17
TRICHLOROETHYLENE (ug/l)			110	36	76	ND 200	180	46	81	36		20
TOLUENE (ug/l)			ND 1	5400	5200	14,000	7500	3.6	360	ND .5		ND 1
XYLENE (ug/l)			20	4000	1500	10,000	3000	220	370	ND .5		ND 1
METHYLENE CHLORIDE (ug/l)			ND 1	ND 1	ND 1	ND 200	ND 100	1.8	8.4	ND .5		3

NOTE: ND 1 = Compound was not detected at 1 ug/l.

TABLE 13
CHEMICAL ANALYSIS OF

SPLIT SAMPLES

Micrograms Per Liter
(ppb)

	MW 4A			MW 4			MW 10		MW 11		
COMPOUND	C.R.L.	D.H.S.	B & C	C.R.L.	D.H.S.	B & C	C.R.L.	B & C	C.R.L.	D.H.S.	B & C
Chloromethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Bromomethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Vinyl Chloride	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Chloroethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Methylene Chloride	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND 2	3	ND .5	ND 2
1,1-Dichloroethene	ND 250	2	ND 5	56	68	49	ND 1	ND .5	2.3	ND .5	1.6
1,1-Dichloroethane	ND 250	ND 5	ND 5	70	84	77	3.7	ND .5	2.5	2.1	1.5
Trans-1,2-Dichloroethene	ND 250	ND 5	ND 5	ND 20	ND .5	9.8	ND 1	ND .5	ND 1	ND .5	ND .5
Chloroform	ND 250	18	23	ND 20	ND .5	7.8	ND 1	ND .5	ND 1	ND .5	0.6
1,2-Dichloroethane	ND 250	ND 5	46	35	ND .5	38	15	12	21	8.5	14
1,1,1-Trichloroethane	680	ND 5	ND 5	24	ND .5	ND 5	2.3	ND .5	ND 1	ND .5	ND .5
Carbon Tetrachloride	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Trichlorofluoromethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,2-Dichloropropane	ND 250	36	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Trichloroethene	ND 250	42	49	110	225	210	14	37	20	30	25
Dibromochloromethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,1,2-Trichloroethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
cis-1,3-Dichloropropene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
2-Chloroethyl Vinyl Ether	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Bromoform	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Tetrachloroethene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,1,2,2-Tetrachloroethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Chlorobenzene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Bromodichloromethane	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,2-Dichlorobenzene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,3-Dichlorobenzene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
1,4-Dichlorobenzene	ND 250	ND 5	ND 5	ND 20	ND .5	ND 5	ND 1	ND .5	ND 1	ND .5	ND .5
Benzene	ND 175	15	ND 5	ND 14	ND .5	ND 5	ND .7	ND .5	ND .7	ND .5	ND .5
Toluene	8,500	11,300	7,300	180	252	200	ND 1	0.7	ND 1	ND .5	ND .5
Ethyl Benzene	8,500	11,500	6,600	70	99	70	ND 1	1.7	ND 1	46	25
Total Xylenes	23,000	20,200	12,000	200	309	280	ND 1	4.4	17	ND .5	4

NOTE: ND 1 = Compound was not detected at 1 ug/l.

B & C = Brown & Caldwell Laboratories

A.T.I. = Analytical Technologies, Inc.

D.H.S. = California Department of Health Services

TABLE 14
SEQUENCE OF SAMPLING

PARAMETERS								
MONITORING WELL NO.	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	ETHYL BENZENE	TRICHLOROETHYLENE	TOLUENE	CHLOROFORM	METHYLENE CHLORIDE	
QC 1852	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	
MW 1	ND 1	ND 1	ND 1	4	ND 1	ND 1	ND 1	
MW 2	ND 1	ND 1	ND 1	5	ND 1	ND 1	ND 1	
MW 5	ND 1	ND 1	ND 1	5	ND 1	10	ND 1	
QC 1898	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	
MW 11	2.5	2.3	17	20	ND 1	21	3	
MW 3	ND 10	ND 10	8500	14	8500	ND 10	ND 10	
MW 4	70	56	70	110	180	ND 20	ND 20	
QC 1951	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	
MW 10	3.7	ND 1	ND 1	14	ND 1	ND 1	ND 1	
MW 9	40	50	ND 1	17	ND 1	13	35	
MW 8	50	2.8	ND 1	17	ND 1	ND 1	ND 1	
QC 2002	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	
MW 4A	ND 1	ND 1	ND 1	2	ND 1	ND 1	ND 1	
MW 6B	ND 1	ND 1	ND 1	22	ND 1	ND 1	ND 1	
MW 7	ND 1	ND 1	ND 1	24	ND 1	ND 1	ND 1	
QC 2049	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	

NOTES: Concentrations are in ug/L (ppb).
ND .5 = Compound was not detected at 1 ug/L.

ND .5 = Compound was
detected at 1 ub/l.

TABLE 15
CHEMICAL ANALYSIS OF
SPIKED SAMPLES

COMPOUND	A.T.I.	C.R.L.		B & C	
	Spiked Concentration	Analyzed Concentration	% Difference	Analyzed Concentration	% Difference
TOLUENE (ug/l)	88	67	76	76	86
ETHYL BENZENE (ug/l)	81	78	96	77	95
TRICHLORDETHYLENE (ug/l)	70	40	57	70	100

NOTE: A.T.I. = Analytical Technologies, Inc.

B & C = Brown & Caldwell Laboratories

C.R.L. = Chemical Research Laboratories

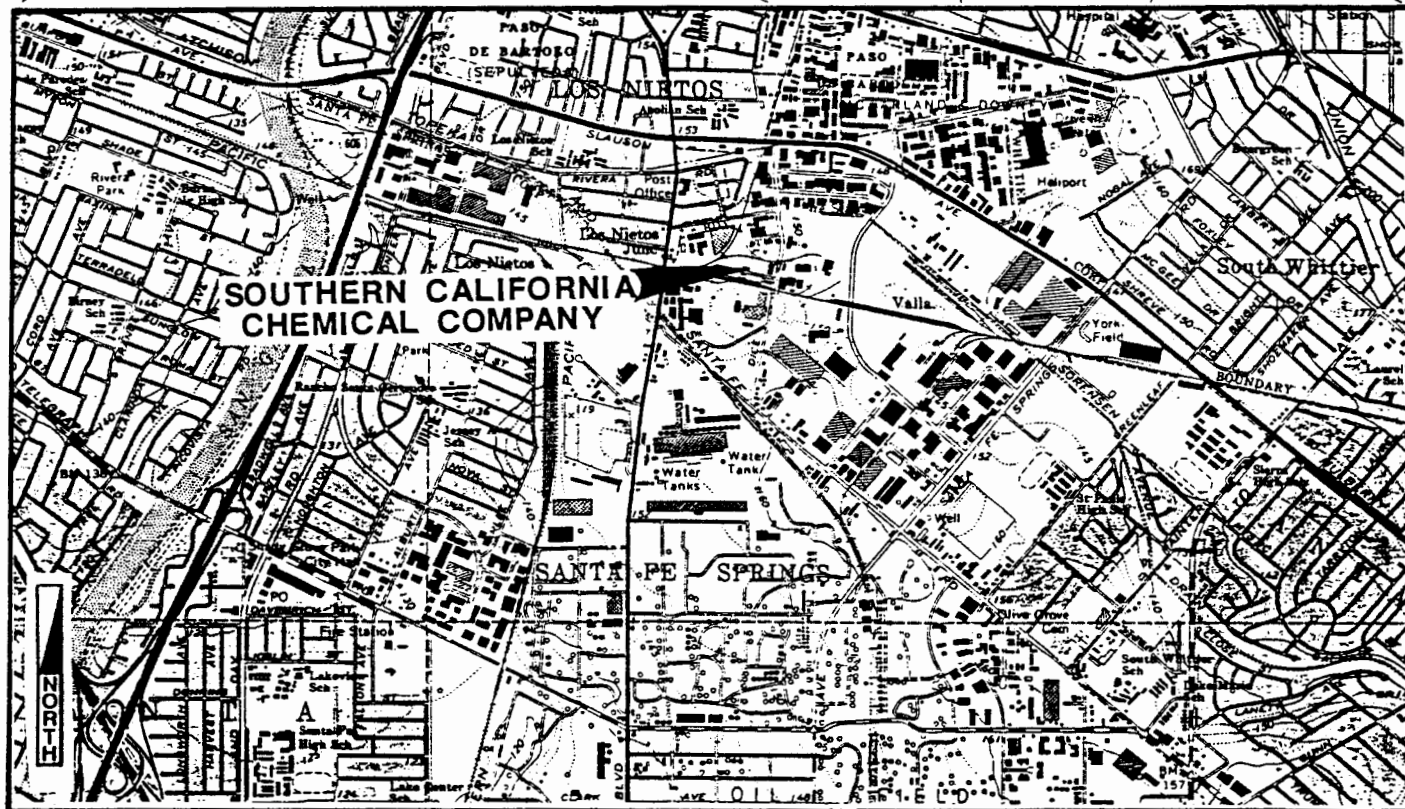
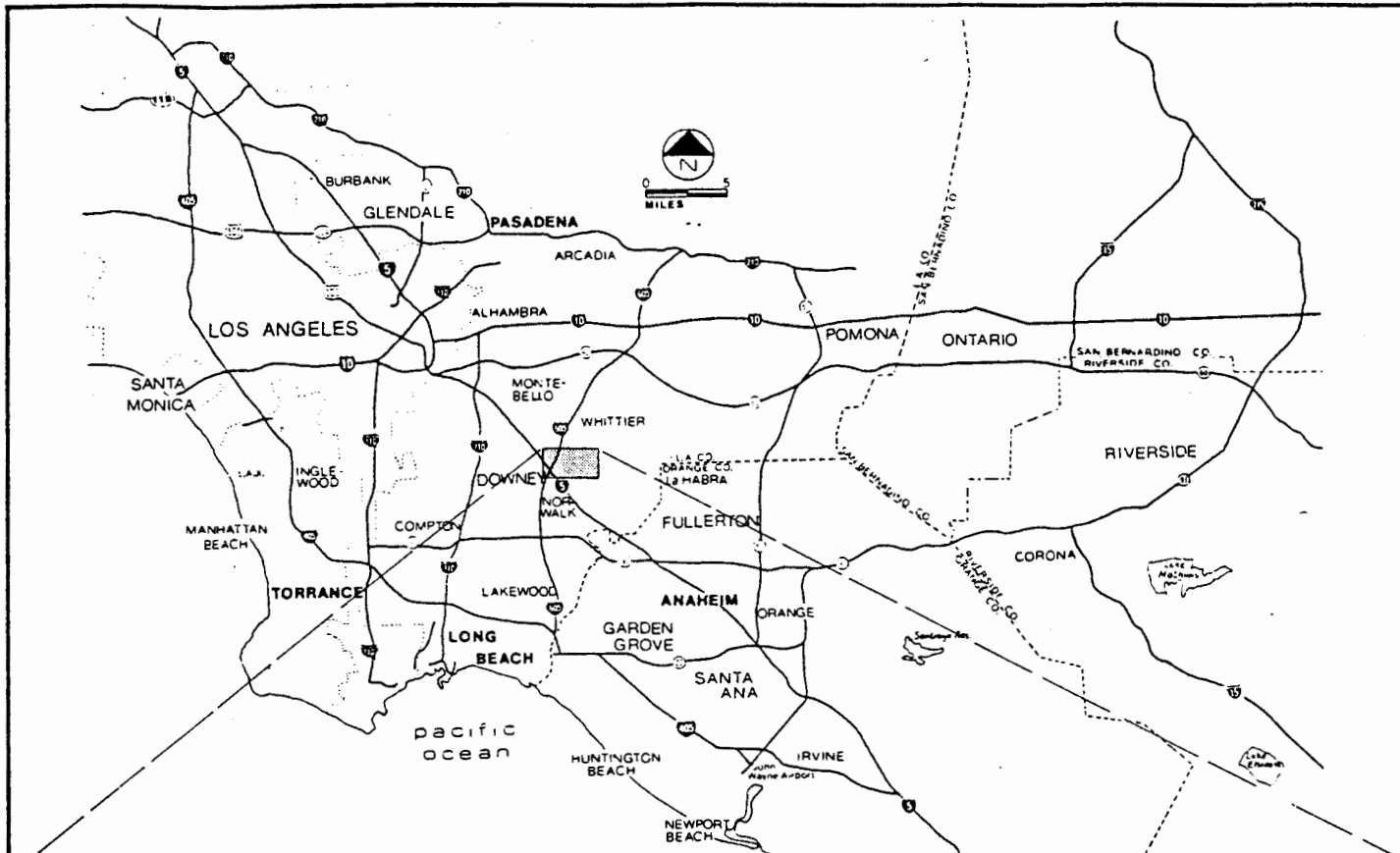
TABLE 16

GROUNDWATER LEVEL ELEVATIONS

(feet MSL)

Well Number	Well Head Elevation (feet MSL)	(Feet Below Ground Surface) Well Depth	Perforated Interval	2-22-85 to 3-12-85	4-09-85	7-24-85 to 8-05-85	6-19-85	9-20-85	3-19-86	7-09-86	9-24-86	12-17-86	3-31-87	7/1/87	10/17/87	2/2/88
1	152.6	62.5	42.5-62.5	108.49	108.48	109.66	108.16	106.05	103.46	107.78	105.15	103.65	103.71	103.57	100.09	100.21
2	151.56	74.0	44-74	107.31	107.72	109.21	107.56	105.49	102.44	107.04	104.05	102.96	106.58	103.95	98.85	99.24
3	151.62	75.0	45-75	106.37	107.52	108.37	106.65	104.46	101.22	106.03	103.15	102.07	102.96	101.87	97.77	98.22
4	149.76	75.0	45-75	105.76	108.11	108.36	105.16	104.50	101.42	105.94	102.98	101.81	101.78	102.95	97.76	98.21
4A	152.49	107.0	87-107			108.84	109.43	104.49	102.67	107.29	104.29	102.09		104.19	98.92	98.47
5	153.21	75.0	45-75	105.71	106.02	107.68	106.03	103.84	100.46	105.40	102.49	101.41	101.37	98.51	96.24	97.52
6A	149.31	30.0	10-30		119.39		120.91									
6B	149.46	77.0	47-77	106.46	106.80		107.81	104.92	101.48	106.02	103.21	102.16	101.95	103.11	98.28	98.44
7	149.27	75.0	45-75			107.48	105.34	104.33	101.07	105.73	102.63	101.57	101.52	99.20	97.75	98.22
8	149.53	71.0	41-71			107.95	106.86	104.78	101.65	106.26	103.17	101.98	101.68	101.52	98.12	98.19
9	151.14	77.0	47-77			108.35	106.98	104.25	102.14	106.72	103.64	102.74	104.02	103.53	98.56	98.85
10	151.60	75.0	45-75			107.88	106.94	104.87	102.80	106.26	103.15	102.40	102.62	102.14	98.01	98.69
11	152.80	75.5	55-75			108.38	107.17	105.03	101.96	106.61	103.34	102.65	102.91	102.41	98.21	98.97

NOTE: MSL = Elevations in feet above mean sea level.



1 INCH equals 2500 feet

Map reduced from a portion of U.S.G.S. 7.5' topographic series,
Whittier, California Quadrangle.



KLEINFELDER

Project Number 50-1014-02

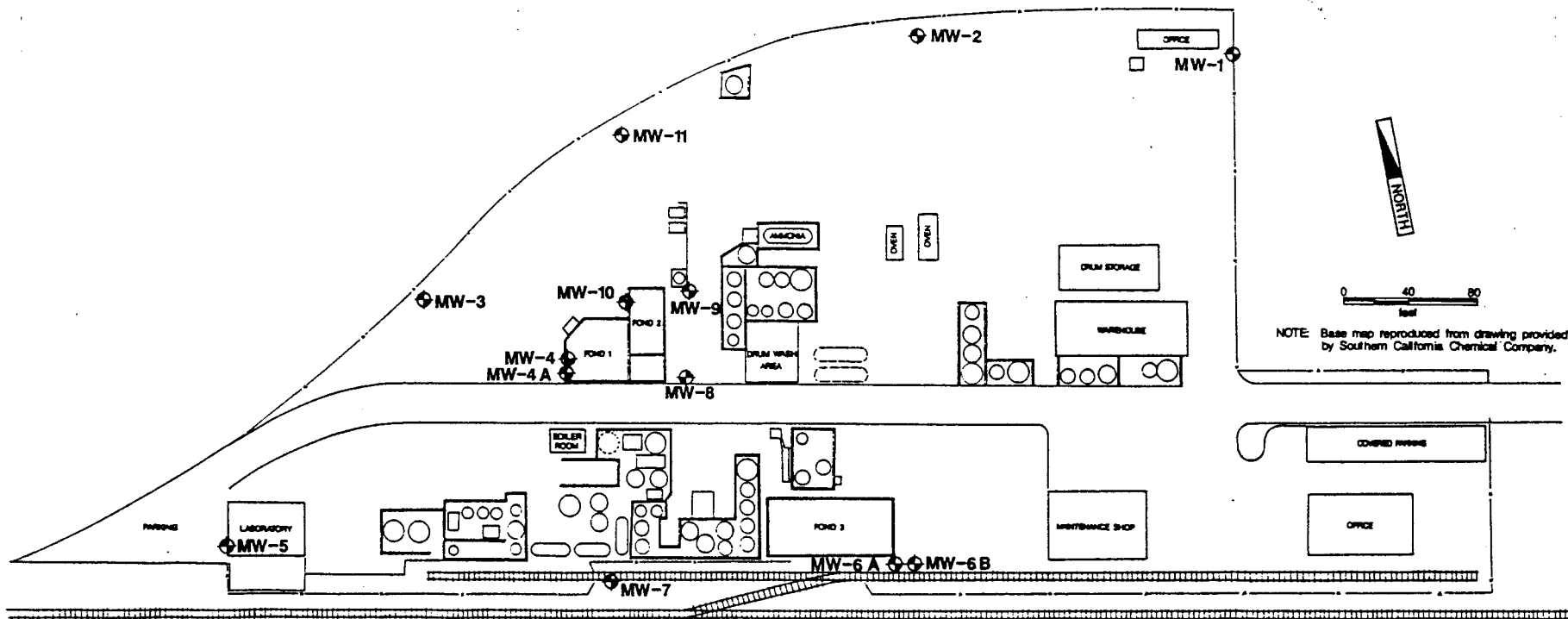
April 1988

SOUTHERN CALIFORNIA CHEMICAL COMPANY
Santa Fe Springs, California

SITE LOCATION MAP


PLATE

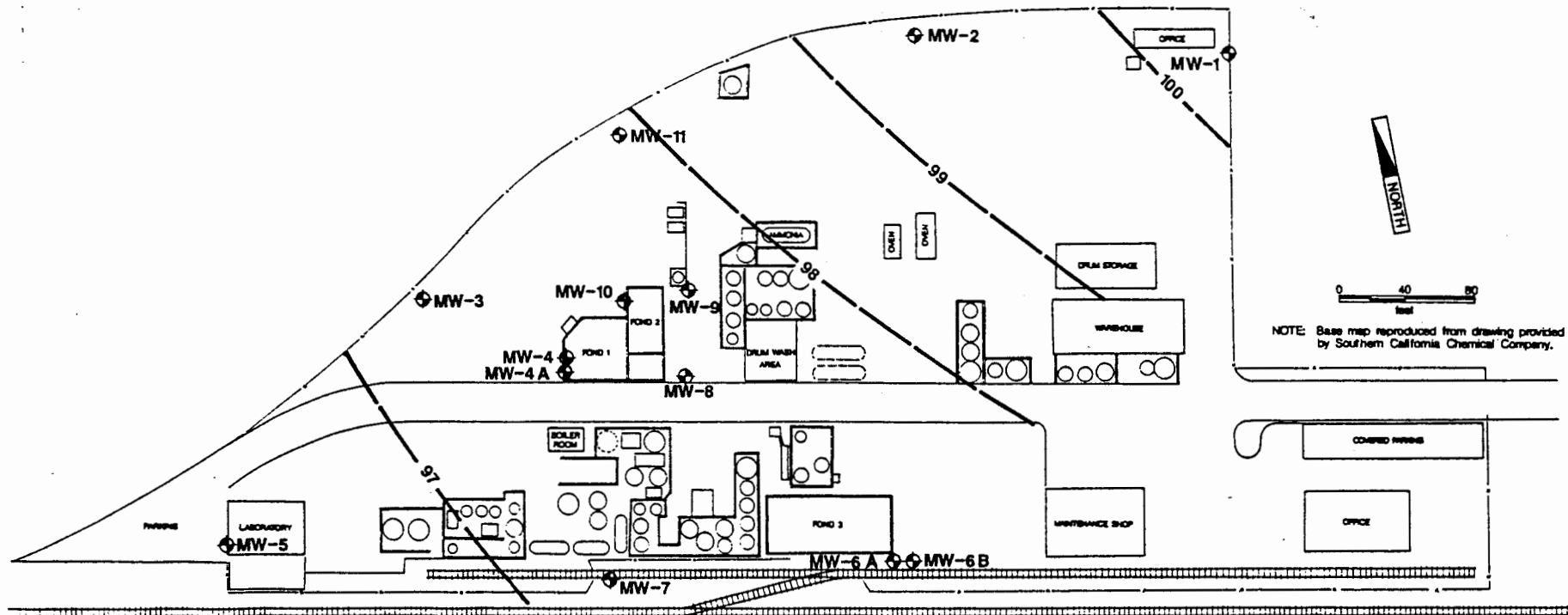
1



EXPLANATION

 MONITORING WELL, estimated location

SOUTHERN CALIFORNIA CHEMICAL COMPANY Santa Fe Springs, California	PLATE
MONITORING WELL LOCATION MAP	2
 KLEINFELDER Project Number 50-1014-02	April 1988



NOTE: Base map reproduced from drawing provided by Southern California Chemical Company.

EXPLANATION

MONITORING WELL, estimated location

LINE of EQUAL ELEVATION of
GROUNDWATER SURFACE
(feet above mean sea level)

SOUTHERN CALIFORNIA CHEMICAL COMPANY
Santa Fe Springs, California

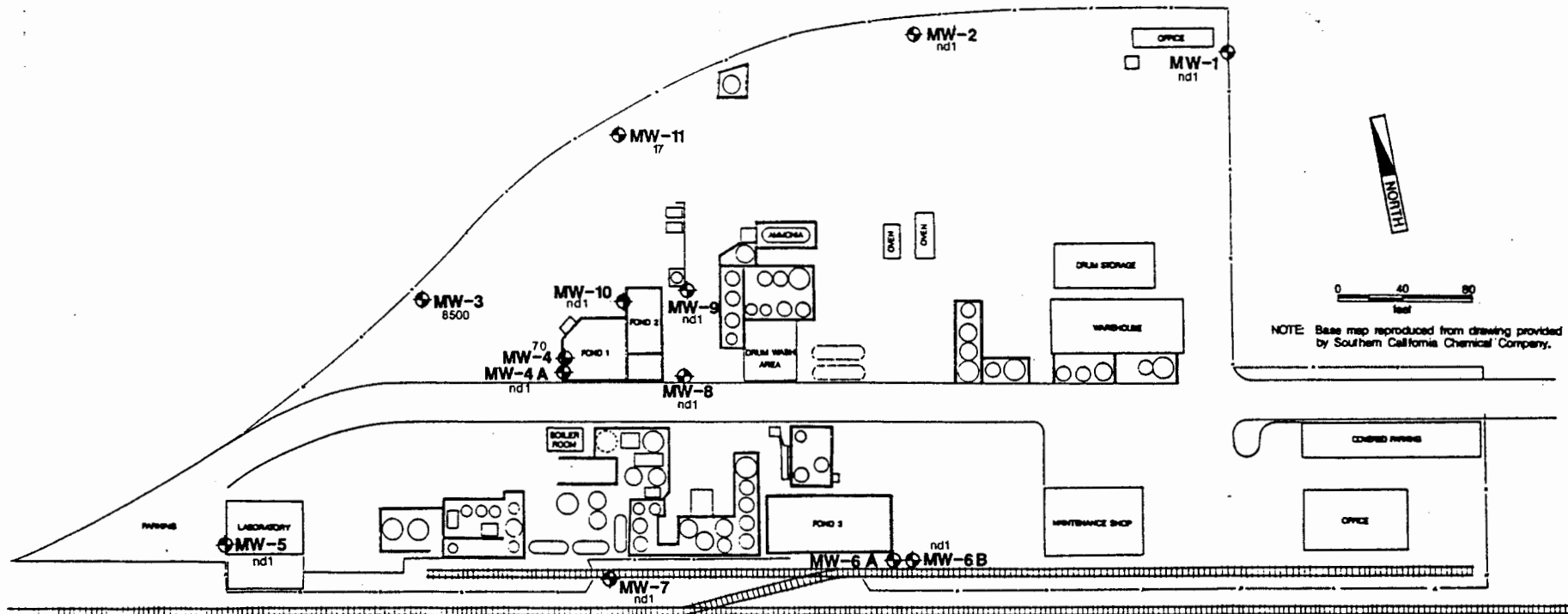
GROUNDWATER CONTOUR MAP

PLATE

3


KH KLEINFELDER
Project Number 50-1014-02

April 1988



NOTE: Base map reproduced from drawing provided by Southern California Chemical Company.

EXPLANATION

 MONITORING WELL, estimated location with concentration of ethyl benzene in shallow groundwater
 nd = non-detected

SOUTHERN CALIFORNIA CHEMICAL COMPANY
Santa Fe Springs, California

CONCENTRATION of
ETHYL BENZENE IN
SHALLOW GROUNDWATER

PLATE

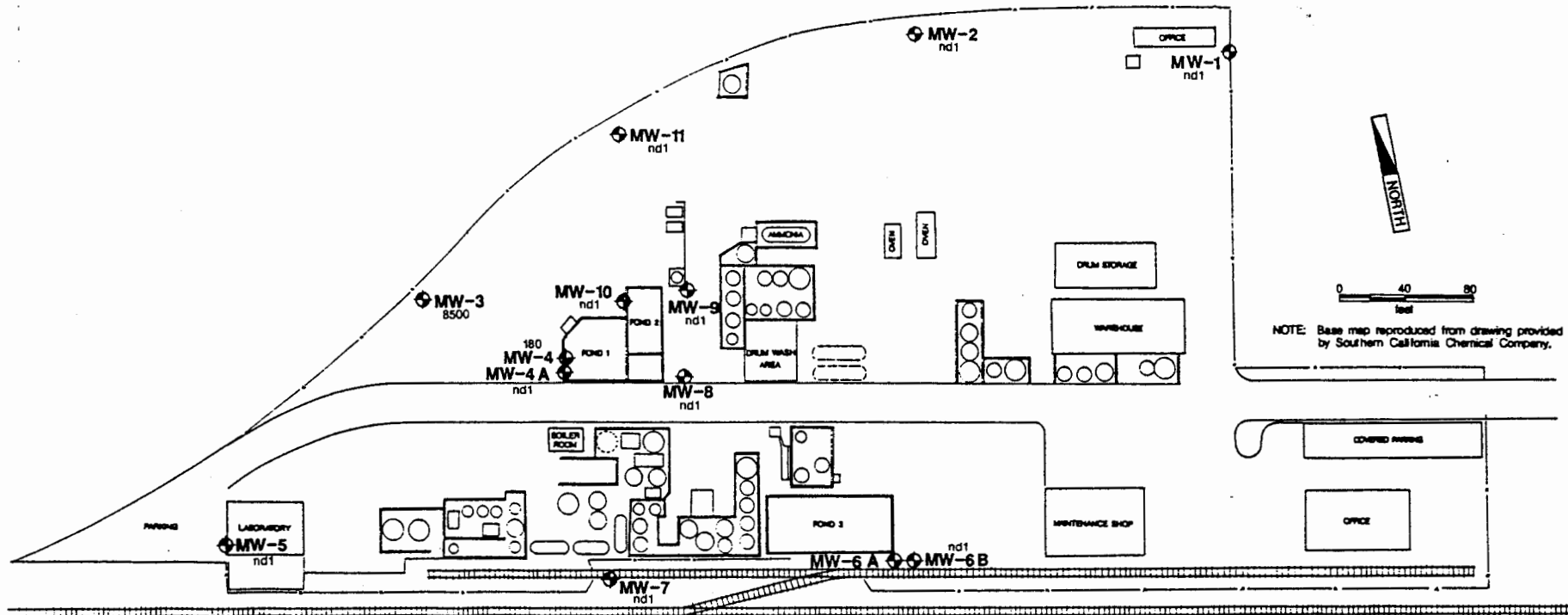
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KLEINFELDER

Project Number 50-1014-02

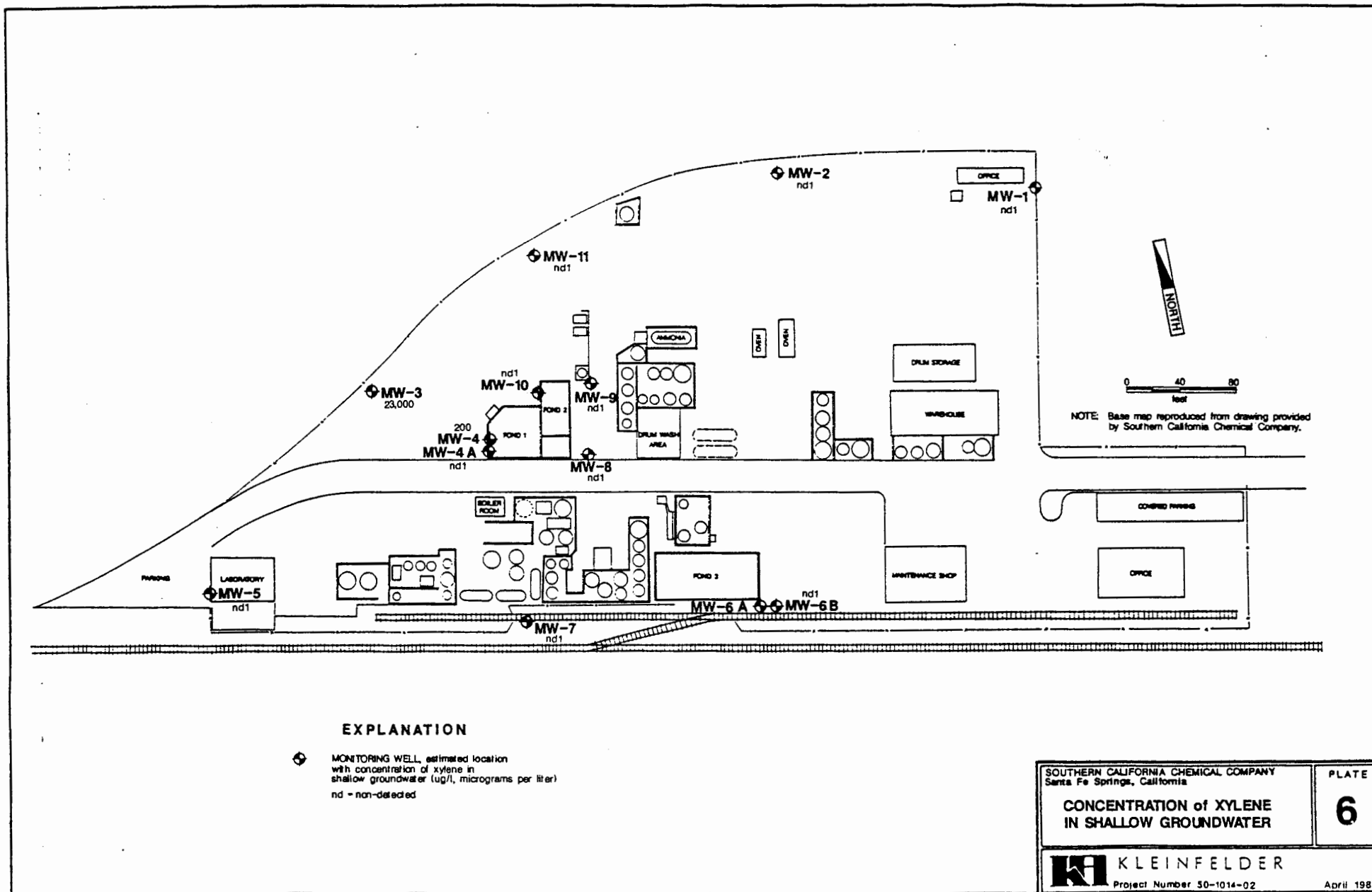
April 1988



EXPLANATION

- MONITORING WELL, estimated location with concentration of toluene in shallow groundwater (ug/l, micrograms per liter)
- nd - non-detected

SOUTHERN CALIFORNIA CHEMICAL COMPANY Santa Fe Springs, California		PLATE
CONCENTRATION of TOLUENE IN SHALLOW GROUNDWATER		5
KLEINFELDER Project Number 50-1014-02		April 1988



APPENDIX A
Groundwater Sampling Protocol

APPENDIX A MONITORING WELL GROUNDWATER SAMPLING PROTOCOL

DECONTAMINATION

The following procedure details the routine that is employed in decontamination of groundwater sampling equipment prior to sample collection:

- o Exterior surface of sampling tubes are decontaminated by steam-cleaning during withdrawal from every well.
- o Sample pump is disassembled and the used bladder removed.
- o All pump components are then steam-cleaned and rinsed in distilled water.
- o Pump is re-assembled with a new bladder installed.
- o Teflon sampler lines are pressure washed with 5 to 10 gallons of clean, hot water through direct connection to a steam-cleaner.
- o Five gallons of distilled water are then pumped through entire system.
- o Prior to sample collection, a minimum of five well volumes are purged from the well to permit collection of a representative groundwater sample from the aquifer penetrated.

PURGE VOLUME DETERMINATION

The following procedure is followed to determine the appropriate purging volume prior to well sampling.

- o The depth-to-water is measured by a clean, electric water level indicator. Measurement datum is the top of fill ring.
- o Depth to the bottom of the well is measured by a clean tape and plumb bob. If possible, this is compared to the well construction log to determine inconsistencies, i.e., damaged casing, sediment presence in casing, etc.
- o Water volume is calculated by multiplying total water depth by the volume of one foot of the casing. This figure is one well volume.

WELL PURGING AND SAMPLING

- o Prior to sampling, a minimum of three to five well volumes are purged from each well to ensure that water sampled is representative of the groundwater within the formation.
- o Measurements of pH, conductivity and temperature are taken at frequent intervals during the purge. Stabilization of these values indicates that representative formation fluids are being removed from the well.
- o In the event that the well is pumped dry, an alternate procedure will be followed. Once a well is pumped dry, the water that enters the well during recovery is, by definition, representative formation water. The well will, therefore, be pumped dry and allowed to recover to 80 percent or more of the original water level.
- o Purge water is pumped directly into barrels on-site until the proper method of disposal is determined.
- o Samples pumped directly into sampling bottles prepared by the state certified laboratory contracted for the particular job are labeled and placed in clean field ice chests filled with chemical ice ("Blue Ice") for transport to the laboratory.
- o Samples are delivered directly to the laboratory on the same day of sampling by courier, whenever practical. If next-day delivery is necessary, the samples are kept refrigerated at 4 degrees Celsius overnight and delivered to the laboratory the following morning.
- o Samples are accompanied by a Chain-of-Custody form which documents the time, date, and responsible person during each step of the transportation process.
- o The Kleinfelder coded sample numbering system allows identification of sample and client to Kleinfelder, while not revealing the client to the laboratory or other interested parties.

- o Water samples are numbered in the following manner:

W-XX-YY

Where:

W - designates water sample
XX - well number
YY - sequential sample number

For example, W-01-22 indicates a water sample from well number 1. The sample is the 22nd water sample taken at the site.

- o The complete information on the sample label includes:
 - Date and time
 - Client job number (never client name)
 - Sample number
 - Initials of sampler
 - Analysis desired (if known)
 - Preservative in sample bottle (usually noted by laboratory)
- o Each sample bottle is given a separate sequential number.
- o An indelible, non-water soluble marking pen is used to mark the sample label.

APPENDIX B
Analytical Results



Analytical **Technologies, Inc.**

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D. 802033

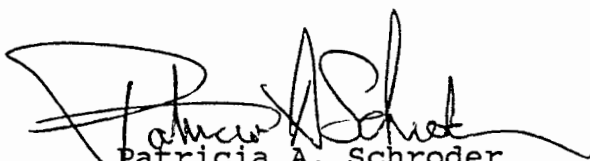
February 17, 1988

J. H. Kleinfelder & Associates
17100 Pioneer Blvd., Suite 350
Artesia, California 90701


Attention: Ken Durand

On February 3, 1988, Analytical Technologies, Inc. prepared one water sample. The sample was analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. Please see the attached sheet for the sample cross reference.

The results, sample cross reference, and the quality control data are enclosed.


Patricia A. Schroder
GC Supervisor

PS:mag


Richard M. Amano
Laboratory Manager



ATI I.D. 802033

ANALYTICAL SCHEDULE

CLIENT: J.H. KLEINFELDER-ARTESIA
PROJECT NAME: (NONE)

PROJECT NO.: (NONE)

ANALYSIS	TECHNIQUE	REFERENCE/METHOD
PURGEABLE HALOCARBONS	GC/HALL	EPA 601
PURGEABLE AROMATICS	GC/PID	EPA 602

CLIENT : KLEINFELDER-ARTESIA
PROJECT # : (NONE)
PROJECT NAME : (NONE)

DATE RECEIVED : 02/03/88

REPORT DATE : 02/17/88

ATI I.D. : 802033

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	CHECK SAMPLES	WATER	02/02/88

----- TOTALS -----

MATRIX	# SAMPLES
WATER	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 80203301

TEST : VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

CLIENT : KLEINFELDER-ARTESIA
PROJECT # : (NONE)
PROJECT NAME : (NONE)
CLIENT I.D. : CHECK SAMPLES
SAMPLE MATRIX : WATER

DATE SAMPLED : 02/02/88
DATE RECEIVED : 02/03/88
DATE EXTRACTED : N/A
DATE ANALYZED : 02/12/88
UNITS : UG/L
DILUTION FACTOR : 20

COMPOUNDS	RESULTS
BENZENE	<10
BROMODICHLOROMETHANE	<4.0
BROMOFORM	<4.0
BROMOMETHANE	<4.0
CARBON TETRACHLORIDE	<4.0
CHLOROBENZENE	<10
CHLOROETHANE	<4.0
CHLOROFORM	<4.0
CHLOROMETHANE	<4.0
DIBROMOCHLOROMETHANE	<4.0
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<4.0
1,1-DICHLOROETHANE	<4.0
1,2-DICHLOROETHANE	<4.0
1,1-DICHLOROETHENE	<4.0
TRANS-1,2-DICHLOROETHENE	<4.0
1,2-DICHLOROPROPANE	<4.0
CIS-1,3-DICHLOROPROPENE	<4.0
TRANS-1,3-DICHLOROPROPENE	<4.0
ETHYLBENZENE	81
METHYLENE CHLORIDE	<40
1,1,2,2-TETRACHLOROETHANE	<4.0
TETRACHLOROETHENE	<4.0
TOLUENE	88
1,1,1-TRICHLOROETHANE	<4.0
1,1,2-TRICHLOROETHANE	<4.0
TRICHLOROETHENE	70
TRICHLOROFLUOROMETHANE	<40
VINYL CHLORIDE	<4.0
META XYLENE	<10
ORTHO & PARA XYLENE	<10

SURROGATE PERCENT RECOVERIES

BROMOCHLOROMETHANE (%) 90
TRIFLUOROTOLUENE (%) 96



GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

CLIENT : KLEINFELDER-ARTESIA
PROJECT # : (NONE)
PROJECT NAME : (NONE)
CLIENT I.D. : REAGENT BLANK

ATI I.D. : 802033
DATE EXTRACTED : 02/12/88
DATE ANALYZED : 02/12/88
UNITS : UG/L
DILUTION FACTOR : N/A

COMPOUNDS

RESULTS

BENZENE	<0.5
BROMODICHLOROMETHANE	<0.2
BROMOFORM	<0.2
BROMOMETHANE	<0.2
CARBON TETRACHLORIDE	<0.2
CHLOROBENZENE	<0.5
CHLOROETHANE	<0.2
CHLOROFORM	<0.2
CHLOROMETHANE	<0.2
DIBROMOCHLOROMETHANE	<0.2
1,2-DICHLOROBENZENE	<0.5
1,3-DICHLOROBENZENE	<0.5
1,4-DICHLOROBENZENE	<0.5
DICHLORODIFLUOROMETHANE	<0.2
1,1-DICHLOROETHANE	<0.2
1,2-DICHLOROETHANE	<0.2
1,1-DICHLOROETHENE	<0.2
TRANS-1,2-DICHLOROETHENE	<0.2
1,2-DICHLOROPROPANE	<0.2
CIS-1,3-DICHLOROPROPENE	<0.2
TRANS-1,3-DICHLOROPROPENE	<0.2
ETHYLBENZENE	<0.5
METHYLENE CHLORIDE	<2.0
1,1,2,2-TETRACHLOROETHANE	<0.2
TETRACHLOROETHENE	<0.2
TOLUENE	<0.5
1,1,1-TRICHLOROETHANE	<0.2
1,1,2-TRICHLOROETHANE	<0.2
TRICHLOROETHENE	<0.2
TRICHLOROFLUOROMETHANE	<2.0
VINYL CHLORIDE	<0.2
META XYLENE	<0.5
ORTHO & PARA XYLENE	<0.5

SURROGATE PERCENT RECOVERIES

BROMOCHLOROMETHANE (%)	92
TRIFLUOROTOLUENE (%)	100



BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553

RECEIVED
FEB 19 1988

Ans'd.....

February 10, 1988

Mr. Ken Durand
J.H. Kleinfelder & Associates
17100 Pioneer Boulevard, Suite 350
Artesia, California 90701

Dear Mr. Durand:

Brown and Caldwell analyzed five groundwater samples taken February 3, 1988, for Project Q-1014. A summary of the methods used in analysis is provided below:

<u>Analyte</u>	<u>Method Number</u>	<u>Reference</u>	<u>Description</u>
Purgeable halocarbons	601	1	GC/Hall
Volatile aromatics	602	1	GC/PID

Reference:

1. 40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Federal Register, October 26, 1984.

Should you have any questions, please do not hesitate to call us.

Very truly yours,

BROWN AND CALDWELL

Jane Freemyer
Client Services Manager

JF:lah



BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553 • FAX (818) 795-8579

LOG NO: P88-02-102

Received: 04 FEB 88

Reported: 12 FEB 88

Ken Durand
J. H. Kleinfelder & Associates
17100 Pioneer Blvd., Suite 350
Artesia, California 90701

Project: Q-1014

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES					DATE SAMPLED
02-102-1	W-11-(1915,1916)					03 FEB 88
02-102-2	W-03-(1919,1920)					03 FEB 88
02-102-3	W-04-(1936,1937)					03 FEB 88
02-102-4	W-10-(1955,1956)					03 FEB 88
02-102-5	W-00-(2051,2052)					03 FEB 88
PARAMETER	02-102-1	02-102-2	02-102-3	02-102-4	02-102-5	
Halocarbons (EPA 601)						
Date Analyzed	02/06/88	02/06/88	02/06/88	02/06/88	02/06/88	
Dilution Factor, Times 1	1	10	10	1	1	
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,1,2-Trichloroethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,1-Dichloroethane, ug/L	1.5	<5	77	3.4	<0.5	
1,1-Dichloroethene, ug/L	1.6	<5	49	3.6	<0.5	
1,2-Dichlorobenzene, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,2-Dichloroethane, ug/L	14	46	38	12	<0.5	
trans-1,2-Dichloroethene, ug/L	<0.5	<5	9.8	<0.5	<0.5	
1,2-Dichloropropane, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,3-Dichlorobenzene, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,4-Dichlorobenzene, ug/L	<0.5	<5	<5	<0.5	<0.5	
2-Chloroethylvinylether, ug/L	<0.5	<5	<5	<0.5	<0.5	
Bromodichloromethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Bromomethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Bromoform, ug/L	<0.5	<5	<5	<0.5	<0.5	
Chlorobenzene, ug/L	<0.5	<5	<5	<0.5	<0.5	
Carbon Tetrachloride, ug/L	<0.5	<5	<5	<0.5	<0.5	
Chloroethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Chloroform, ug/L	0.6	23	7.8	<0.5	<0.5	
Chloromethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Dibromochloromethane, ug/L	<0.5	<5	<5	<0.5	<0.5	

**BROWN AND CALDWELL LABORATORIES**

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553 • FAX (818) 795-8579

ANALYTICAL REPORT

LOG NO: P88-02-102

Received: 04 FEB 88

Reported: 12 FEB 88

Ken Durand
J. H. Kleinfelder & Associates
17100 Pioneer Blvd., Suite 350
Artesia, California 90701

Project: Q-1014

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED				
02-102-1	W-11-(1915,1916)	03 FEB 88				
02-102-2	W-03-(1919,1920)	03 FEB 88				
02-102-3	W-04-(1936,1937)	03 FEB 88				
02-102-4	W-10-(1955,1956)	03 FEB 88				
02-102-5	W-00-(2051,2052)	03 FEB 88				
PARAMETER	02-102-1	02-102-2	02-102-3	02-102-4	02-102-5	
Dichlorodifluoromethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Methylene chloride, ug/L	<2	<5	<5	<2	<2	
Tetrachloroethene, ug/L	<0.5	<5	<5	<0.5	<0.5	
1,1,1-Trichloroethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Trichloroethylene, ug/L	25	49	210	37	70	
Trichlorofluoromethane, ug/L	<0.5	<5	<5	<0.5	<0.5	
Vinyl chloride, ug/L	<0.5	<5	<5	<0.5	<0.5	
cis-1,3-Dichloropropene, ug/L	<0.5	<5	<5	<0.5	<0.5	
trans-1,3-Dichloropropene, ug/L	<0.5	<5	<5	<0.5	<0.5	



BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553 • FAX (818) 795-8579

LOG NO: P88-02-102

Received: 04 FEB 88

Reported: 12 FEB 88

Ken Durand
J. H. Kleinfelder & Associates
17100 Pioneer Blvd., Suite 350
Artesia, California 90701

Project: Q-1014


REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES					DATE SAMPLED
02-102-1	W-11-(1915,1916)					03 FEB 88
02-102-2	W-03-(1919,1920)					03 FEB 88
02-102-3	W-04-(1936,1937)					03 FEB 88
02-102-4	W-10-(1955,1956)					03 FEB 88
02-102-5	W-00-(2051,2052)					03 FEB 88
PARAMETER	02-102-1	02-102-2	02-102-3	02-102-4	02-102-5	
Vol.Aromatics (EPA-602)						
Date Analyzed	02/06/88	02/08/88	02/06/88	02/06/88	02/06/88	
Dilution Factor, Times 1	1	100	10	1	1	
Chlorobenzene, ug/L	<0.5	<50	<5	<0.5	<0.5	
1,2-Dichlorobenzene, ug/L	<0.5	<50	<5	<0.5	<0.5	
1,3-Dichlorobenzene, ug/L	<0.5	<50	<5	<0.5	<0.5	
1,4-Dichlorobenzene, ug/L	<0.5	<50	<5	<0.5	<0.5	
Benzene, ug/L	<0.5	<50	<5	<0.5	<0.5	
Ethylbenzene, ug/L	25	6600	70	1.7	77	
Toluene, ug/L	<0.5	7300	200	0.7	76	
Additional Compounds:						
Total Xylene Isomers, ug/L	4.0	12000	280	4.4	<0.5	

Samples P88-01-102-1 and -2 for EPA 601 had to be run diluted due to high levels of contamination.

-- T. Gaynor


Edward Wilson, Laboratory Director



Chemical Research Laboratories, Inc.

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February 22, 1988

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

ANALYSIS NO.: 803515-001/067
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
PROJECT: #50-1014-3

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 803515-001/067 shown above.

Sixty seven liquid samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.


REVIEWED AND APPROVED



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

ANALYSIS NO.: 803515-001/067
ANALYSES: See Attachments
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
PROJECT: #50-1014-3

The following tests were performed on the samples received:

<u>TEST</u>	<u>METHOD</u>	<u>REFERENCE</u>	<u>COMMENTS</u>
Aromatic Volatile Organics	EPA 602	EPA 600, 1982	GC/PID detector
Halogenated Volatile Organics	EPA 601	*EPA 601, 1982	GC/Hall detector
Chromium, Hexavalent	EPA 7196	SW 846, 1986	Spectrophotometer
CAC Metals (Totals)	EPA 6010	SW 846, 1986	ICAP/AA
pH	EPA 9040	SW 846, 1986	pH meter
Specific Conductance	EPA 9050	SW 846, 1986	Conductivity meter
Chloride	EPA 300.0	SW 846, 1986	Water Extraction/IC
Nitrate	EPA 300.0	*EPA 600	Water Extraction/IC
Total Organic Halogens	EPA 9020	SW 846,, 1986	Carbon Adsorption, Microcoulometric- Titration Detector
Total Organic Carbon	EPA 9060	SW 846, 1986	Infrared Detector

* Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.



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QA/QC SUMMARY

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

ANALYSIS NO.: 803515-001/067
ANALYSES: See Attachments
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
PROJECT: #50-1014-3

QA/QC SUMMARY

Date	Parameter(method)	Average Matrix Spike Recovery%	Acceptable Range%	Relative Percent Difference	Acceptable Range%
02/10/88	Toluene (EPA 602)	71.	60-120.	8.	40.
02/10/88	O-Xylene (EPA 602)	68.	60-120.	9.	40.
02/10/88	1,1 DCE (EPA 601)	80.	60-120.	11.	40.
02/10/88	Chlorobenzene (EPA 601)	83.	60-120.	21.	40.
02/10/88	Trichloroethene (EPA 601)	66.	60-120.	2.	40.
02/10/88	Nitrate (EPA 300.0)	102.	87-121.	2.	10.
02/10/88	Chloride (EPA 300.0)	99.	90-112.	1.	10.
02/10/88	Total Organic Carbons (EPA 9060)	104.	50-130.	1.	30.
02/12/88	Total Organic Halogen (EPA 9020)	86.	50-130.	4.	30.
02/17/88	Antimony (EPA 6010)	102.	76.4-129.	0.	20.
02/17/88	Barium (EPA 6010)	104.	90.4-114.5	0.	18.
02/17/88	Cadmium (EPA 6010)	95.	80-120.	0.	25.
02/17/88	Chromium (EPA 6010)	104.	90.3-138.6	1.	35.
02/17/88	Copper (EPA 6010)	97.	69.3-125.9	1.	28.
02/17/88	Zinc (EPA 6010)	105.	98.5-116.8	4.	17.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2048

ANALYSIS NO.: 803515-062
ANALYSES: Metals
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-17/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

CAC METALS ANALYSIS (Total)

UNITS: mg/L

<u>METALS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium	ND	ND	0.02
Chromium	0.02	ND	0.02
Copper	ND	ND	0.02
Zinc	ND	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2033

ANALYSIS NO.: 803515-047
ANALYSES: Metals
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-17/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

CAC METALS ANALYSIS (Total)

UNITS: mg/L

<u>METALS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium	ND	ND	0.02
Chromium	0.02	ND	0.02
Copper	ND	ND	0.02
Zinc	ND	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

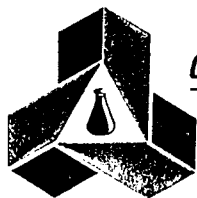
SAMPLE ID: W-4A-2018

ANALYSIS NO.: 803515-032
ANALYSES: Metals
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-17/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

CAC METALS ANALYSIS (Total)

UNITS: mg/L

<u>METALS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium	ND	ND	0.02
Chromium	0.03	ND	0.02
Copper	ND	ND	0.02
Zinc	ND	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-2001

ANALYSIS NO.: 803515-015
ANALYSES: Metals
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-17/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

CAC METALS ANALYSIS (Total)

UNITS: mg/L

<u>METALS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium	ND	ND	0.02
Chromium	0.03	ND	0.02
Copper	ND	ND	0.02
Zinc	ND	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2045

ANALYSIS NO.: 803515-059
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	8.93	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	8500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2047

ANALYSIS NO.: 803515-061
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	8.93	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	8500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2044

ANALYSIS NO.: 803515-058
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	8.95	N/A	N/A
Nitrate (EPA 300.0)	ND	ND	1.
(Nitrate as Nitrogen)	ND	ND	0.2
Chloride (EPA 300.0)	1900.	ND	1.
Specific Conductance (uMHOS/cm) (EPA 9050)	8500.	N/A	N/A
Chromium, Hexavalent (EPA 7196)	ND	ND	0.1



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LABORATORY REPORT

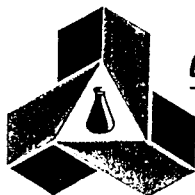
J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2032

ANALYSIS NO.: 803515-046
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.15	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1260.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2031

ANALYSIS NO.: 803515-045
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.12	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1260.	N/A	N/A



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LABORATORY REPORT

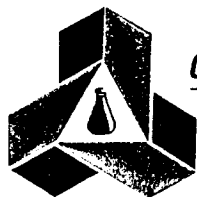
J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2030

ANALYSIS NO.: 803515-044
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.16	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1280.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B 2029

ANALYSIS NO.: 803515-043
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.11	N/A	N/A
Nitrate (EPA 300.0)	37.	ND	1.
(Nitrate as Nitrogen)	8.4	ND	0.2
Chloride (EPA 300.0)	61.	ND	1.
Specific Conductance (uMHOS/cm) (EPA 9050)	1260.	N/A	N/A
Chromium, Hexavalent (EPA 7196)	ND	ND	0.1



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2017

ANALYSIS NO.: 803515-031
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.30	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1650.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2016

ANALYSIS NO.: 803515-030
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.30	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1700.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2015

ANALYSIS NO.: 803515-029
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.32	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1700.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2014

ANALYSIS NO.: 803515-028
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.27	N/A	N/A
Nitrate (EPA 300.0)	17.	ND	1.
(Nitrate as Nitrogen)	3.8	ND	0.2
Chloride (EPA 300.0)	97.	ND	1.
Specific Conductance (uMHOS/cm) (EPA 9050)	1600.	N/A	N/A
Chromium, Hexavalent (EPA 7196)	ND	ND	0.1



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7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • FAX: (714) 891-5917 • (800) LAB-1CRL

LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-2000

ANALYSIS NO.: 803515-014
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.22	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1550.	N/A	N/A



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LABORATORY REPORT

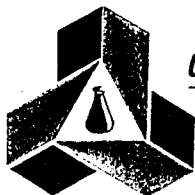
J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-1999

ANALYSIS NO.: 803515-013
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.26	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1550.	N/A	N/A



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LABORATORY REPORT

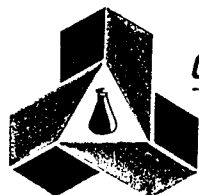
J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-1998

ANALYSIS NO.: 803515-012
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.23	N/A	N/A
Specific Conductance uMHOS/cm) (EPA 9050)	1550.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-1997

ANALYSIS NO.: 803515-011
ANALYSES: Miscellaneous
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/09-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS (units)</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9040)	7.20	N/A	N/A
Nitrate (EPA 300.0)	20.	ND	1.
(Nitrate as Nitrogen)	4.5	ND	0.2
Chloride (EPA 300.0)	140.	ND	1.
Specific Conductance (uMHOS/cm) (EPA 9050)	1550.	N/A	N/A
Chromium, Hexavalent (EPA 7196)	ND	ND	0.1



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

ANALYSIS NO.: 803515-007/057
ANALYSES: EPA Method 9020
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/12/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 9020 TOTAL ORGANIC HALOGENS

UNITS: ug/L

ANALYSIS NO.
(SAMPLE ID.)

RESULTS

BLANK

DETECTION LIMIT

W-08-1993	53.	ND	10.
W-08-1994	50.	ND	10.
W-08-1995	26.	ND	10.
W-08-1996	20.	ND	10.
W-4A-2010	10.	ND	10.
W-4A-2011	ND	ND	10.
W-4A-2012	ND	ND	10.
W-4A-2013	ND	ND	10.
W-6B-2025	ND	ND	10.
W-6B-2026	23.	ND	10.
W-6B-2027	16.	ND	10.
W-6B-2028	15.	ND	10.
W-07-2040	55.	ND	10.
W-07-2041	69.	ND	10.
W-07-2042	110.	ND	10.
W-07-2043	85.	ND	10.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

ANALYSIS NO.: 803515-003/053
ANALYSES: EPA Method 9060
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 9060 TOTAL ORGANIC CARBON

UNITS: mg/L

ANALYSIS NO.
(SAMPLE ID.)

RESULTS

BLANK

DETECTION LIMIT

W-08-1989	ND	ND	1.
W-08-1990	ND	ND	1.
W-08-1991	1.	ND	1.
W-08-1992	ND	ND	1.
W-4A-2006	ND	ND	1.
W-4A-2007	ND	ND	1.
W-4A-2008	ND	ND	1.
W-4A-2009	ND	ND	1.
W-6B-2021	ND	ND	1.
W-6B-2022	ND	ND	1.
W-6B-2023	ND	ND	1.
W-6B-2024	ND	ND	1.
W-07-2036	2.2	ND	1.
W-07-2037	2.	ND	1.
W-07-2038	1.8	ND	1.
W-07-2039	2.1	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-1987

ANALYSIS NO.: 803515-001
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

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ATTN: Mr. Ken Durand

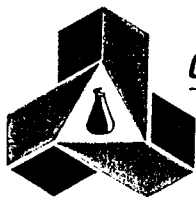
SAMPLE ID: W-00-2002

ANALYSIS NO.: 803515-016
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2004

ANALYSIS NO.: 803515-018
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2019

ANALYSIS NO.: 803515-033
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2034

ANALYSIS NO.: 803515-048
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-00-2049

ANALYSIS NO.: 803515-063
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-00-2053

ANALYSIS NO.: 803515-065
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	67.	ND	1.
Ethyl Benzene	78.	ND	1.
Total Xylenes	1.6	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
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Artesia, CA 90701
ATTN: Mr. Ken Durand

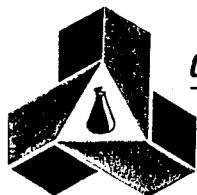
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ANALYSIS NO.: 803515-067
ANALYSES: EPA Method 602
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-08-1987

ANALYSIS NO.: 803515-001
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	2.8	ND	1.
1,1-Dichloroethane	50.	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	17.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-00-2002

ANALYSIS NO.: 803515-016
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-4A-2004

ANALYSIS NO.: 803515-018
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	2.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-6B-2019

ANALYSIS NO.: 803515-033
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	22.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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SOUTHERN CALIFORNIA DIVISION

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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-07-2034

ANALYSIS NO.: 803515-048
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	24.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-00-2049

ANALYSIS NO.: 803515-063
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

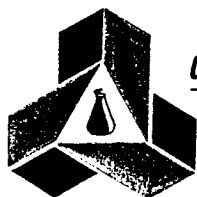
EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: W-00-2053

ANALYSIS NO.: 803515-065
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	40.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd. Suite 350
Artesia, CA 90701
ATTN: Mr. Ken Durand

SAMPLE ID: Trip Blank

ANALYSIS NO.: 803515-067
ANALYSES: EPA Method 601
DATE SAMPLED: 02/04/88
DATE SAMPLE REC'D: 02/04/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropropene	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
Cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

Results are blank subtracted.



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March 4, 1988

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-016
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88

Enclosed with this letter is the amended report on the chemical and physical analyses on the samples from ANALYSIS NO: 803419-016 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

REVIEWED AND APPROVED



Chemical Research Laboratories, Inc.

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March 4, 1988

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-016
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88

Enclosed with this letter is the amended report on the chemical and physical analyses on the samples from ANALYSIS NO: 803419-016 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.



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Chemical Research Laboratories, Inc.

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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1918

ANALYSIS NO.: 806001-001
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE RELOGGED: 02/08/88
DATE ANALYZED: 02/29/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	10.
Bromomethane	ND	ND	10.
Vinyl Chloride	ND	ND	10.
Chloroethane	ND	ND	10.
Methylene Chloride	ND	ND	10.
1,1-Dichloroethene	ND	ND	10.
1,1-Dichloroethane	ND	ND	10.
Trans-1,2-Dichloroethene	ND	ND	10.
Chloroform	ND	ND	10.
1,2-Dichloroethane	36.	ND	10.
1,1,1-Trichloroethane	ND	ND	10.
Carbon Tetrachloride	ND	ND	10.
Trichlorofluoromethane	ND	ND	10.
1,2-Dichloropropane	ND	ND	10.
Trans-1,3-Dichloropropene	ND	ND	10.
Trichloroethene	14.	ND	10.
Dibromochloromethane	ND	ND	10.
1,1,2-Trichloroethane	ND	ND	10.
cis-1,3-Dichloropropene	ND	ND	10.
2-Chloroethyl Vinyl Ether	ND	ND	10.
Bromoform	ND	ND	10.
Tetrachloroethene	ND	ND	10.
1,1,2,2-Tetrachloroethane	ND	ND	10.
Chlorobenzene	ND	ND	10.
Bromodichloromethane	ND	ND	10.
1,2-Dichlorobenzene	ND	ND	10.
1,3-Dichlorobenzene	ND	ND	10.
1,4-Dichlorobenzene	ND	ND	10.



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February 23, 1988

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-001/072
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: 50-1014-3

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 803419-001/072 shown above.

Seventy two liquid samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.



REVIEWED AND APPROVED



Chemical Research Laboratories, Inc.

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J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-001/072
ANALYSES: See Attachment
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: 50-1014-3

The following tests were performed on the samples received:

<u>TEST</u>	<u>METHOD</u>	<u>REFERENCE</u>	<u>COMMENTS</u>
Halogenated Volatile Organics (Liquid)	EPA 601	EPA 600 ¹ , 1982	GC/Hall Detector
Aromatic Volatile Organics (Liquid)	EPA 602	EPA 600 ¹ , 1982	GC/PID Detector
pH (Soil)	EPA 9045	SW 846, 1986	pH meter
CAC Metals (Total)	EPA 6010	SW 846, 1986	ICAP/AA
Chromium, Hexavalent	EPA 7196	SW 846, 1986	ICAP/AA
Specific Conductance	EPA 9050	SW 846, 1986	Conductivity meter
Chloride	EPA 300.0	SW 846, 1986	Water Extraction/IC
Nitrate	EPA 300.0	EPA 600 ²	Water Extraction/IC
Total Organic Carbons	EPA 9060	SW 846, 1986	Infrared Detector
Total Organic Halogens	EPA 9020	SW 846, 1986	Carbon Adsorption, Microcoulometric- Titration Detector

¹Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

²Methods for Chemical Analysis of Water and Wastes, 1983.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1898, 1899

ANALYSIS NO.: 803419-001
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	ND	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1898, 1899

ANALYSIS NO.: 803419-001
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-11-1900, 1901

ANALYSIS NO.: 803419-002
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	3.	ND	1.
1,1-Dichloroethene	2.3	ND	1.
1,1-Dichloroethane	2.5	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	21.	ND	1.
1,1,1-Trichloroethane	2.	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	20.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-11-1900, 1901

ANALYSIS NO.: 803419-002
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	17.	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-003/063
ANALYSES: EPA Method 9060
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

TOTAL ORGANIC CARBONS

UNITS: mg/L

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
W-11-1902	12.5	ND	0.5
W-11-1903	12.	ND	0.5
W-11-1904	12.	ND	0.5
W-11-1905	12.	ND	0.5
W-03-1921	137.	ND	0.5
W-03-1922	134.	ND	0.5
W-03-1923	134.	ND	0.5
W-03-1924	137.	ND	0.5
W-04-1938	47.	ND	0.5
W-04-1939	46.	ND	0.5
W-04-1940	46.	ND	0.5
W-04-1941	46.	ND	0.5
W-10-1957	7.	ND	0.5
W-10-1958	7.	ND	0.5
W-10-1959	7.	ND	0.5
W-10-1960	7.	ND	0.5
W-09-1974	3.	ND	0.5
W-09-1975	3.	ND	0.5
W-09-1976	3.	ND	0.5
W-09-1977	3.	ND	0.5



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-007/067
ANALYSES: EPA Method 9020
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/12/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

TOTAL ORGANIC HALOGENS

UNITS: ug/L

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
W-11-1906	79.	ND	8.
W-11-1907	71.	ND	8.
W-11-1908	74.	ND	8.
W-11-1909	57.	ND	8.
W-03-1925	91.	ND	8.
W-03-1926	111.	ND	8.
W-03-1927	105.	ND	8.
W-03-1928	106.	ND	8.
W-04-1942	370.	ND	8.
W-04-1943	350.	ND	8.
W-04-1944	380.	ND	8.
W-04-1945	360.	ND	8.
W-10-1961	56.	ND	8.
W-10-1962	97.	ND	8.
W-10-1963	36.	ND	8.
W-10-1964	59.	ND	8.
W-09-1978	160.	ND	8.
W-09-1979	160.	ND	8.
W-09-1980	150.	ND	8.
W-09-1981	170.	ND	8.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-11-1910

ANALYSIS NO.: 803419-011
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.33	N/A	N/A
Conductivity (uMHOS/cm) (EPA 9050)	1440.	N/A	N/A
Chromium Hexavalent (EPA 7196)	ND	ND	0.1
Nitrate (EPA 300.0)	9.6	ND	1.
Nitrate as Nitrogen	2.2	ND	0.2
Chloride (EPA 300.0)	86.	ND	1.



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LABORATORY REPORT

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17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-012
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

Sample ID: W-11-1911

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.34	N/A	N/A
Conductivity (EPA 9050)	1320.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-11-1912

ANALYSIS NO.: 803419-013
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.34	N/A	N/A
Conductivity (EPA 9050)	3500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-11-1913

ANALYSIS NO.: 803419-014
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.36	N/A	N/A
Conductivity (EPA 9050)	1320.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-015
ANALYSES: Metals
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

Sample ID: W-11-1914

METALS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	ND	ND	0.02
Zinc (EPA 6010)	ND	ND	0.02
Chromium Total (EPA 6010)	0.04	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1917, 1918

ANALYSIS NO.: 803419-016
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	250.
Bromomethane	ND	ND	250.
Vinyl Chloride	ND	ND	250.
Chloroethane	ND	ND	250.
Methylene Chloride	ND	ND	250.
1,1-Dichloroethene	ND	ND	250.
1,1-Dichloroethane	ND	ND	250.
Trans-1,2-Dichloroethene	ND	ND	250.
Chloroform	ND	ND	250.
1,2-Dichloroethane	ND	ND	250.
1,1,1-Trichloroethane	680.	ND	250.
Carbon Tetrachloride	ND	ND	250.
Trichlorofluoromethane	ND	ND	250.
1,2-Dichloropropane	ND	ND	250.
Trichloroethene	ND	ND	250.
Dibromochloromethane	ND	ND	250.
1,1,2-Trichloroethane	ND	ND	250.
cis-1,3-Dichloropropene	ND	ND	250.
2-Chloroethyl Vinyl Ether	ND	ND	250.
Bromoform	ND	ND	250.
Tetrachloroethene	ND	ND	250.
1,1,2,2-Tetrachloroethane	680.	ND	250.
Chlorobenzene	ND	ND	250.
Bromodichloromethane	ND	ND	250.
1,2-Dichlorobenzene	ND	ND	250.
1,3-Dichlorobenzene	ND	ND	250.
1,4-Dichlorobenzene	ND	ND	250.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1917, 1918

ANALYSIS NO.: 803419-016
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>*DETECTION LIMIT</u>
Benzene	ND	ND	175.
Toluene	8500.	ND	250.
Ethyl Benzene	8500.	ND	250.
Total Xylenes	23000.	ND	250.

*Elevated detection limits due to sample matrix.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1929

ANALYSIS NO.: 803419-025
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.74	N/A	N/A
Conductivity (uMHOS/cm) (EPA 9050)	1500.	N/A	N/A
Chromium Hexavalent (EPA 7196)	ND	ND	0.1
Nitrate (EPA 300.0)	ND	ND	1.
Nitrate as Nitrogen	ND	ND	0.2
Chloride (EPA 300.0)	190.	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1930

ANALYSIS NO.: 803419-026
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.76	N/A	N/A
Conductivity (EPA 9050)	1650.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1931

ANALYSIS NO.: 803419-027
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.80	N/A	N/A
Conductivity (EPA 9050)	1500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1932

ANALYSIS NO.: 803419-028
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.81	N/A	N/A
Conductivity (EPA 9050)	1650.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-03-1933

ANALYSIS NO.: 803419-029
ANALYSES: Metals
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

METALS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	ND	ND	0.02
Zinc (EPA 6010)	ND	ND	0.02
Chromium Total (EPA 6010)	0.08	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-030
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

Sample ID: W-04-1934, 1935

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>*DETECTION LIMIT</u>
Chloromethane	ND	ND	20.
Bromomethane	ND	ND	20.
Vinyl Chloride	ND	ND	20.
Chloroethane	ND	ND	20.
Methylene Chloride	ND	ND	20.
1,1-Dichloroethene	56.	ND	20.
1,1-Dichloroethane	70.	ND	20.
Trans-1,2-Dichloroethene	ND	ND	20.
Chloroform	ND	ND	20.
1,2-Dichloroethane	35.	ND	20.
1,1,1-Trichloroethane	24.	ND	20.
Carbon Tetrachloride	ND	ND	20.
Trichlorofluoromethane	ND	ND	20.
1,2-Dichloropropane	ND	ND	20.
Trichloroethene	110.	ND	20.
Dibromochloromethane	ND	ND	20.
1,1,2-Trichloroethane	ND	ND	20.
cis-1,3-Dichloropropene	ND	ND	20.
2-Chloroethyl Vinyl Ether	ND	ND	20.
Bromoform	ND	ND	20.
Tetrachloroethene	ND	ND	20.
1,1,2,2-Tetrachloroethane	ND	ND	20.
Chlorobenzene	ND	ND	20.
Bromodichloromethane	ND	ND	20.
1,2-Dichlorobenzene	ND	ND	20.
1,3-Dichlorobenzene	ND	ND	20.
1,4-Dichlorobenzene	ND	ND	20.

*Elevated detection limit due to sample matrix.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1934, 1935

ANALYSIS NO.: 803419-030
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>*DETECTION LIMIT</u>
Benzene	ND	ND	14.
Toluene	180.	ND	20.
Ethyl Benzene	70.	ND	20.
Total Xylenes	200.	ND	20.

*Elevated detection limits due to sample matrix.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1946

ANALYSIS NO.: 803419-039
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.59	N/A	N/A
Conductivity (uMHOS/cm) (EPA 9050)	4300.	N/A	N/A
Chromium Hexavalent (EPA 7196)	140.	ND	0.1
Nitrate (EPA 300.0)	1.1	ND	1.
Nitrate as Nitrogen	0.2	ND	0.2
Chloride (EPA 300.0)	790.	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1947

ANALYSIS NO.: 803419-040
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.60	N/A	N/A
Conductivity (EPA 9050)	4200.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1948

ANALYSIS NO.: 803419-041
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.60	N/A	N/A
Conductivity (EPA 9050)	5,000.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1949

ANALYSIS NO.: 803419-042
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	6.60	N/A	N/A
Conductivity (EPA 9050)	5000.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-04-1950

ANALYSIS NO.: 803419-043
ANALYSES: Metals
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

METALS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	0.06	ND	0.02
Copper (EPA 6010)	ND	ND	0.03
Zinc (EPA 6010)	0.03	ND	0.02
Chromium Total (EPA 6010)	140.	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1951, 1952

ANALYSIS NO.: 803419-044
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	ND	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1951, 1952

ANALYSIS NO.: 803419-044
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1953, 1954

ANALYSIS NO.: 803419-045
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	ND	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	3.7	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	15.	ND	1.
1,1,1-Trichloroethane	2.3	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	14.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1953, 1954

ANALYSIS NO.: 803419-045
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1965

ANALYSIS NO.: 803419-054
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.50	N/A	N/A
Conductivity (uMHOS/cm) (EPA 9050)	1400.	N/A	N/A
Chromium Hexavalent (EPA 7196)	ND	ND	0.1
Nitrate (EPA 300.0)	ND	ND	1.
Nitrate as Nitrogen	ND	ND	0.2
Chloride (EPA 300.0)	100.	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1966

ANALYSIS NO.: 803419-055
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.51	N/A	N/A
Conductivity (EPA 9050)	1340.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1967

ANALYSIS NO.: 803419-056
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.50	N/A	N/A
Conductivity (EPA 9050)	1360.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1968

ANALYSIS NO.: 803419-057
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.53	N/A	N/A
Conductivity (EPA 9050)	1320.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-10-1969

ANALYSIS NO.: 803419-058
ANALYSES: Metals
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

METALS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	ND	ND	0.02
Zinc (EPA 6010)	ND	ND	0.02
Chromium Total (EPA 6010)	0.08	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1970, 1971

ANALYSIS NO.: 803419-059
ANALYSES: EPA Method 601
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	35.	ND	1.
1,1-Dichloroethene	50.	ND	1.
1,1-Dichloroethane	40.	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	13.	ND	1.
1,2-Dichloroethane	6.	ND	1.
1,1,1-Trichloroethane	2.6	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	17.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1970, 1971

ANALYSIS NO.: 803419-059
ANALYSES: EPA Method 602
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1982

ANALYSIS NO.: 803419-068
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.16	N/A	N/A
Conductivity (uMHOS/cm) (EPA 9050)	2000.	N/A	N/A
Chromium Hexavalent (EPA 7196)	1.3	ND	0.1
Nitrate (EPA 300.0)	32.	ND	10.
Nitrate as Nitrogen	7.2	ND	0.2
Chloride (EPA 300.0)	290.	ND	10.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1983

ANALYSIS NO.: 803419-069
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.15	N/A	N/A
Conductivity (EPA 9050)	2100.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1984

ANALYSIS NO.: 803419-070
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.15	N/A	N/A
Conductivity (EPA 9050)	2150.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-09-1985

ANALYSIS NO.: 803419-071
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.15	N/A	N/A
Conductivity (EPA 9050)	2050.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

SAMPLE ID: W-09-1986

ANALYSIS NO.: 803419-072
ANALYSES: Miscellaneous
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 3/25/88
SAMPLE TYPE: Liquid
PROJECT: 50-1014-3

METALS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	ND	ND	0.02
Zinc (EPA 6010)	ND	ND	0.02
Chromium (EPA 6010)	1.3	ND	0.02
(Total)			



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QA/QC SUMMARY

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803419-001/072
ANALYSES: See Attachment
DATE SAMPLED: 02/03/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: 50-1014-3

QA/QC SUMMARY

<u>Date</u>	<u>Parameter(method)</u>	<u>Average Matrix Spike Recovery%</u>	<u>Acceptable Range%</u>	<u>Relative Percent Difference</u>	<u>Acceptable Range%</u>
2/10/88	Nitrate (EPA 300.0)	102	87-121	2	10
2/10/88	Chloride (EPA 300.0)	99	90-112	1	10
2/10/88	Total Organic Carbons (EPA 9060)	103	50-130	0	30
2/12/88	Total Organic Halogens (EPA 9020)	107	50-130	2	30
2/05/88	Chromium Hexavalent (EPA 7196)	100	76.4-137	0	26
2/09/88	Cadmium (EPA 6010)	96	74.2-140	6	26
2/09/88	Chromium (EPA 6010)	96	76.4-137	2	26
2/09/88	Copper (EPA 6010)	94	48.1-155	5	18
2/09/88	Zinc (EPA 6010)	86	63.1-149	11	36
2/10/88	Toluene (EPA 602)	78	60-120	11	40
2/10/88	Xylenes (EPA 602)	86	60-120	7	40
2/10/88	1,1 Dichloroethene (EPA 601)	90	60-120	24	40
2/10/88	Chlorobenzene (EPA 601)	99	60-120	7	40
2/10/88	Trichloroethene (EPA 601)	92	60-120	33	40



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Ans'd.....

February 17, 1988

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-001/048
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: #50-1014-3

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 803406-001/048 shown above.

Forty eight liquid samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.


REVIEWED AND APPROVED



Chemical Research Laboratories, Inc.

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J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-001/048
ANALYSES: See Attachment
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: #50-1014-3

The following tests were performed on the samples received:

<u>TEST</u>	<u>METHOD</u>	<u>REFERENCE</u>	<u>COMMENTS</u>
CAC Metals (Total)	EPA 6010	SW 846, 1986	ICAP/AA
Chromium, Hexavalent	EPA 7196	SW 846, 1986	Spectrophotometer
Halogenated Volatile Organics (Liquid)	EPA 601	EPA 600 ¹ , 1982	GC/Hall Detector
Aromatic Volatile Organic (Liquid)	EPA 602	EPA 600 ¹ , 1982	GC/PID Detector
Chloride	EPA 300.0	SW 846, 1986	Water Extraction/IC
Nitrate	EPA 300.0	EPA 600 ²	Water Extraction/IC
Total Organic Carbon	EPA 9060	SW 846, 1986	Infrared Detector
Total Organic Halogen	EPA 9020	SW 846, 1986	Carbon Adsorption, Microcoulometric- Titration Detector
pH	EPA 9040	SW 846, 1986	Electrometric
Specific Conductance	EPA 9050	SW 846, 1986	Conductivity meter

¹Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

²Methods for Chemical Analysis of Water and Wastes, 1983.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1852

ANALYSIS NO.: 803406-001
ANALYSES: EPA Method 601
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	1.6	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

Note: Result values are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-00-1852

ANALYSIS NO.: 803406-001
ANALYSES: EPA Method 602
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.

Note: Result values are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1854

ANALYSIS NO.: 803406-003
ANALYSES: EPA Method 601
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	1.6	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	4.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1854

ANALYSIS NO.: 803406-003
ANALYSES: EPA Method 602
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.

Note: Result values are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-005/038
ANALYSES: EPA Method 9060
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/04/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

TOTAL ORGANIC CARBONS EPA METHOD 9060

UNITS: mg/L

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
W-01-1856	9.	ND	1.0
W-01-1857	10.	ND	1.0
W-01-1858	10.	ND	1.0
W-01-1859	10.	ND	1.0
W-02-1871	ND	ND	1.0
W-02-1872	ND	ND	1.0
W-02-1873	ND	ND	1.0
W-02-1874	ND	ND	1.0
W-05-1886	7.	ND	1.0
W-05-1887	8.	ND	1.0
W-05-1888	7.	ND	1.0
W-05-1889	6.	ND	1.0



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LABORATORY REPORT

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17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-009/042
ANALYSES: EPA Method 9020
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

TOTAL ORGANIC HALOGEN EPA METHOD 9020

UNITS: mg/L

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
W-01-1860	0.08	ND	0.01
W-01-1861	0.06	ND	0.01
W-01-1862	0.2	ND	0.01
W-01-1863	0.08	ND	0.01
W-02-1875	0.04	ND	0.01
W-02-1876	0.05	ND	0.01
W-02-1877	0.03	ND	0.01
W-02-1878	0.04	ND	0.01
W-05-1890	0.04	ND	0.01
W-05-1891	0.3	ND	0.01
W-05-1892	0.3	ND	0.01
W-05-1893	0.3	ND	0.01



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1864

ANALYSIS NO.: 803406-013
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.10	N/A	N/A
Specific Conductance (EPA 9050)	2,600.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1865

ANALYSIS NO.: 803406-014
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.11	N/A	N/A
Specific Conductance (EPA 9050)	3,000.	N/A	N/A



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J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1866

ANALYSIS NO.: 803406-015
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.08	N/A	N/A
Specific Conductance (EPA 9050)	3,000.	N/A	N/A



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J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-01-1867

ANALYSIS NO.: 803406-016
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.13	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	3,300.	N/A	N/A
Chloride (EPA 300.0)	430.	ND	1.0
Nitrate (EPA 300.0)	19.	ND	1.0
Chromium Hexavalent (EPA 7196)	ND	ND	0.1



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J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-017
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

Sample ID: W-01-1868

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	0.04	ND	0.02
Zinc (EPA 6010)	0.04	ND	0.02
Chromium (EPA 6010)	0.08	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1869

ANALYSIS NO.: 803406-018
ANALYSES: EPA Method 601
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	1.6	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	5.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1869

ANALYSIS NO.: 803406-018
ANALYSES: EPA Method 602
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.

Note: Result values are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1879

ANALYSIS NO.: 803406-028
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.29	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1,650.	N/A	N/A
Chloride (EPA 300.0)	110.	ND	1.0
Nitrate (EPA 300.0)	32.	ND	1.0
Chromium Hexavalent (EPA 7196)	ND	ND	0.1



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1880

ANALYSIS NO.: 803406-029
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.25	N/A	N/A
Specific Conductance (EPA 9050)	1,500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1881

ANALYSIS NO.: 803406-030
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.27	N/A	N/A
Specific Conductance (EPA 9050)	1,500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1882

ANALYSIS NO.: 803406-031
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.29	N/A	N/A
Specific Conductance (EPA 9050)	1,550.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-02-1883

ANALYSIS NO.: 803406-032
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	0.04	ND	0.02
Zinc (EPA 6010)	0.03	ND	0.02
Chromium (EPA 6010)	0.05	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1884

ANALYSIS NO.: 803406-033
ANALYSES: EPA Method 601
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	1.6	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	10.	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	20.	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	5.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1884

ANALYSIS NO.: 803406-033
ANALYSES: EPA Method 602
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.

Note: Result values are blank subtracted.



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1894

ANALYSIS NO.: 803406-043
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05-10/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.14	N/A	N/A
Specific Conductance (uMHOS/cm) (EPA 9050)	1,550.	N/A	N/A
Nitrate (EPA 300.0)	22.	ND	1.0
Chloride (EPA 300.0)	90.	ND	1.0
Chromium Hexavalent (EPA 7196)	ND	ND	0.1



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1895

ANALYSIS NO.: 803406-044
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.04	N/A	N/A
Specific Conductance (EPA 9050)	1,500.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1896

ANALYSIS NO.: 803406-045
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.06	N/A	N/A
Specific Conductance (EPA 9050)	1,550.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1897

ANALYSIS NO.: 803406-046
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/05/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: uMHOS/cm

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
pH (units) (EPA 9045)	7.02	N/A	N/A
Specific Conductance (EPA 9050)	1,550.	N/A	N/A



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: W-05-1898

ANALYSIS NO.: 803406-047
ANALYSES: Miscellaneous
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/09/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

MISCELLANEOUS PARAMETERS

UNITS: mg/L

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Cadmium (EPA 6010)	ND	ND	0.02
Copper (EPA 6010)	ND	ND	0.02
Zinc (EPA 6010)	0.40	ND	0.02
Chromium (EPA 6010)	0.10	ND	0.02



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LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: Trip Blank

ANALYSIS NO.: 803406-048
ANALYSES: EPA Method 601
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULT</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Chloromethane	ND	ND	1.
Bromomethane	ND	ND	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	ND	1.6	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	ND	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trichloroethene	ND	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethyl Vinyl Ether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

Note: Result values are blank subtracted.



Chemical Research Laboratories, Inc.

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458

LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

Sample ID: Trip Blank

ANALYSIS NO.: 803406-048
ANALYSES: EPA Method 602
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
DATE ANALYZED: 02/08/88
SAMPLE TYPE: Liquid
PROJECT: #50-1014-3

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

<u>COMPOUND</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
Benzene	ND	ND	0.7
Toluene	ND	ND	1.
Ethyl Benzene	ND	ND	1.
Total Xylenes	ND	ND	1.

Note: Result values are blank subtracted.



Chemical Research Laboratories, Inc.

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(714) 898-6370 • (213) 598-0458

QA/QC SUMMARY

J.H. KLEINFELDER & ASSOCIATES
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 803406-001/048
ANALYSES: See Attachment
DATE SAMPLED: 02/02/88
DATE SAMPLE REC'D: 02/03/88
PROJECT: #50-1014-3

QA/QC SUMMARY

<u>Date</u>	<u>Parameter(method)</u>	<u>Average Matrix Spike Recovery%</u>	<u>Acceptable Range%</u>	<u>Relative Percent Difference</u>	<u>Acceptable Range%</u>
2/10/88	Nitrate (EPA 300.0)	102	87-121	2	10
2/10/88	Chloride (EPA 300.0)	99	90-112	1	10
2/08/88	Total Organic Halogen (EPA 9020)	112	50-130	6.8	30
2/04/88	Total Organic Carbon (EPA 9060)	99.93	50-130	1	30
2/04/88	Chromium Hexavalent (EPA 7196)	105	76.4-137	5	26
2/09/88	Cadmium (EPA 6010)	96	74.2-140	6	26
2/09/88	Copper (EPA 6010)	94	48.1-155	5	18
2/09/88	Chromium (EPA 6010)	96	76.4-137	2	26
2/09/88	Zinc (EPA 6010)	86	63.1-149	11	36
2/08/88	Toluene (EPA 602)	91	60-120	16	40
2/08/88	Xylenes (EPA 602)	83	60-120	10	40
2/08/88	1,1 Dichloroethene (EPA 601)	103	60-120	3	40
2/08/88	Chlorobenzene (EPA 601)	106	60-120	5	40



Chemical Research Laboratories, Inc.

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458

May 24, 1988

KLEINFELDER
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 812618-001/012
ANALYSES: EPA Method 7190
DATE SAMPLED: 05/03-05/88
DATE SAMPLE REC'D: 05/05/88
PROJECT: 50-1015-04

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 812618-001/012 shown above.

Twelve liquid samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.


REVIEWED


APPROVED



Chemical Research Laboratories, Inc.

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458

KLEINFELDER
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 812618-001/012
ANALYSES: EPA Method 7190
DATE SAMPLED: 05/03-05/88
DATE SAMPLE REC'D: 05/05/88
PROJECT: 50-1015-04

The following test was performed on the samples received:

<u>TEST</u>	<u>METHOD</u>	<u>REFERENCE</u>	<u>COMMENTS</u>
Chromium, Total	EPA 7190	SW 946, 1986	AA, Direct Aspiration



Chemical Research Laboratories, Inc.

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458

LABORATORY REPORT

KLEINFELDER
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 812618-001/012
ANALYSES: EPA Method 7190
DATE SAMPLED: 05/03-05/88
DATE SAMPLE REC'D: 05/05/88
DATE ANALYZED: 05/12/88
SAMPLE TYPE: Liquid
PROJECT: 50-1015-04

TOTAL CHROMIUM BY EPA METHOD 7190

UNITS: mg/L

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>BLANK</u>	<u>DETECTION LIMIT</u>
W-MW1-2055	ND	ND	0.02
W-MW5-2056	ND	ND	0.02
W-MW4 ND -2057	238.	ND	2.0
W-MW4 ND -2058	0.02	ND	0.02
W-MW10-2059	0.05	ND	0.02
W-MW7-2060	ND	ND	0.02
W-MW11-2061	ND	ND	0.02
W-MW9-2062	2.42	ND	0.02
W-MW6B-2063	ND	ND	0.02
W-MW8-2064	ND	ND	0.02
W-MW2-2065	ND	ND	0.02
W-MW3-2066	ND	ND	0.02



Chemical Research Laboratories, Inc.

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458

LABORATORY REPORT

KLEINFELDER
17100 Pioneer Blvd., Suite 350
Artesia, CA 90701
ATTN: Ken Durand

ANALYSIS NO.: 812618-001/012
ANALYSES: EPA Method 7190
DATE SAMPLED: 05/03-05/88
DATE SAMPLE REC'D: 05/05/88
PROJECT: 50-1015-04

QA/QC SUMMARY

<u>Date</u>	<u>Parameter(method)</u>	<u>Average Matrix Spike Recovery%</u>	<u>Acceptable Range%</u>	<u>Relative Percent Difference</u>	<u>Acceptable Range%</u>
05/12/88	Chromium (EPA 7190)	115	47.3-159	0	47

APPENDIX C
Chain of Custody Forms

CHAIN OF CUSTODY RECORD

SHIPPING INFORMATION

SAMPLERS: (Signature)

Mark Ellis

Phone:

SHIP TO:

Chemical Research Lab

Learden Grove CA

ATTENTION:

Celina Aviles

Phone No.

Relinquished by: (Signature)

Mark Ellis

Relinquished by: (Signature)

Mark Ellis

Relinquished by: (Signature)

Relinquished by: (Signature)

Shipper

Kleinfelder

Address

Artesia

Date Shipped

2/3/88

Shipment Service

CHL

Airbill No.

Cooler No.

Received by: (Signature)

Signature

Date/Time

2/3/88 9:17 A.M.

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by*: (Signature)

Don Bunker

Date/Time

2/3/88 11:05 AM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-00-1852</i>	<i>Q-1014-3</i>	<i>2/2/88</i>	<i>EPA 601 & 602</i>	
<i>1853</i>				
<i>W-01-1854</i>			<i>EPA 601 & 602</i>	
<i>1855</i>				
<i>1856</i>			<i>TOC</i>	
<i>1857</i>				
<i>1858</i>				
<i>1859</i>				
<i>1860</i>			<i>TOY</i>	
<i>1861</i>				
<i>1862</i>				
<i>1863</i>				
<i>1864</i>				
<i>1865</i>			<i>pH & Cond in goods</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) *Send invoice to SCC*

(5) *Send results to K Durand*

KO128882. CA

02/3/88 called K. Durand for tests requested in clarification + P.O. #

White - Kleinfelder

Canary - Laboratory Courtesy Copy

Pink - Sampler

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Ellis

Phone: _____

SHIP TO:

Chemical Research Lab

Garden Grove CA

ATTENTION:

Colinda Aviles

Phone No. _____

Relinquished by: (Signature)

Mark Ellis

Relinquished by: (Signature)

Aggunda

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Aggunda

Received by: (Signature)

Received by: (Signature)

Receive for laboratory by*: (Signature)

Don Binkley

Date/Time

2/3/88 9:17 A.M.

Date/Time

Date/Time

Date/Time

2/3/88 11:05 AM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white)
copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>41-01-1866</i>	<i>50-1014-3</i>	<i>2/2/87</i>	<i>pH cond in quads</i>	
<i>1867</i>			<i>CL, Nitrate & Hex Cr NOT in quads</i>	
<i>1868</i>			<i>CL, Cu, Zn, Cr-TOT</i>	
<i>41-02-1869</i>			<i>EPA 601 &</i>	
<i>1870</i>			<i>602</i>	
<i>1871</i>			<i>TOL</i>	
<i>1872</i>			<i>TOL</i>	
<i>1873</i>			<i>TOL</i>	
<i>1874</i>			<i>TOL</i>	
<i>1875</i>			<i>TOX</i>	
<i>1876</i>			<i>TOX</i>	
<i>1877</i>			<i>TOX</i>	
<i>1878</i>			<i>TOX</i>	
<i>1879</i>			<i>pH cond NOT CL Hex Cr Hex Cr</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) *Send INVOICE to for Colif Chem*

(5) *Send results to K. Binkley*

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Elb

Phone: _____

SHIP TO:

Chemical Records Lab.

Garden Grove Ca

ATTENTION:

Celina Avilas

Phone No. _____

SHIPPING INFORMATION

Shipper

Kleinfelder

Address

Artesia

Date Shipped

2/3/88

Shipment Service

CRC

Airbill No. _____

Cooler No. _____

Relinquished by: (Signature)

Mark Elb

Received by: (Signature)

Agustin

Date/Time

2/3/88 9:17 A.M.

Relinquished by: (Signature)

Agustin

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Receive for laboratory by*: (Signature)

Don Boring

Date/Time

2/3/88 11:05 AM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-02-1880</i>	<i>51-1014-3</i>	<i>2/2/88</i>	<i>pH cond</i>	
<i>1881</i>			<i>pH cond</i>	
<i>1882</i>			<i>pH cond</i>	
<i>1883</i>			<i>Cd, Cu, Zn, Cr TOT</i>	
<i>W-05-1884</i>			<i>EM 601</i>	
<i>1885</i>			<i>602</i>	
<i>1886</i>			<i>TOL</i>	
<i>1887</i>			<i>TOL</i>	
<i>1888</i>			<i>TOL</i>	
<i>1889</i>			<i>TOL</i>	
<i>1890</i>			<i>TOX</i>	
<i>1891</i>			<i>TOX</i>	
<i>1892</i>			<i>TOX</i>	
<i>1893</i>			<i>TOX</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*

SHIPPING INFORMATION

Phone:

SHIP TO:

Shipper Kleinholz

Address Aitesa

Date Shipped 2/3/88

Shipment Service CRL

Airbill No. _____

Cooler No. _____

Phone No. _____

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Receive for laboratory by*: (Signature)

Date/Time

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

[illegible]

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Tim TURNER

Phone: 713 860 5559

SHIP TO:

CRL

Carson Grove CA

ATTENTION:

Celine Ariles

Phone No.

Relinquished by: (Signature)

Tim TURNER

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Receive for laboratory by*: (Signature)

Date/Time

2/3/88 7:25 P.M.

Date/Time

Date/Time

Date/Time

2/3 4:50pm

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<u>W-00-1898</u>	<u>SC-1014-3</u>	<u>2/3/88</u>	<u>1 EPA 601</u>	
<u>1899</u>			<u>602</u>	
<u>W-11-1900</u>			<u>1 EPA 601</u>	
<u>1901</u>			<u>602</u>	
<u>1902</u>			<u>TOC</u>	
<u>1903</u>			<u>TOC</u>	
<u>1904</u>			<u>TOC</u>	
<u>1905</u>			<u>TOC</u>	
<u>1906</u>			<u>TOX</u>	
<u>1907</u>			<u>TOX</u>	
<u>1908</u>			<u>TOX</u>	
<u>1909</u>			<u>TOX</u>	
<u>1910</u>			<u>ph cond NO₃, Cl₂, Hex Cr</u>	
<u>1911</u>			<u>ph cond</u>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) Send invoice to So. Calif. Chem

(5) Send results to K. Deard

KO128882.CA

White - Kleinfelder

Canary - Laboratory Courtesy Copy

Pink - Sampler

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Tim TURNER

Phone: 860 5559

SHIP TO:

CRL

Carden Grove

ATTENTION:

Phone No.

Relinquished by: (Signature)

Tim TURNER

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Receive for laboratory by: (Signature)

Date/Time

2/8/88 4:25 PM

Date/Time

Date/Time

Date/Time

2/03 4:50 PM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
W-11-1912	SW-104-3	2/3/88	pH cond	
1913			pH cond	
1914			cd, Cu, Zn, Cr Tot	
1915				
1916				
W-03-1917			EPA 601	
1918			602	
1919				
1920				
1921			TOC	
1922			TOC	
1923			TOC	
1924			TOC	
1925			TOX	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

[Signature]

Phone: _____

SHIP TO:

CRC

Carroll Creek CR

ATTENTION: _____

Phone No. _____

SHIPPING INFORMATION

Shipper

Address

Date Shipped

Shipment Service

Airbill No. _____

Cooler No. _____

Relinquished by: (Signature)

[Signature]

Received by: (Signature)

[Signature]

Date/Time

2/3/88 4:25 P.M.

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Receive for laboratory by*: (Signature)

[Signature]

Date/Time

2/3/88 4:50 P.M.

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>U-03-1926</i>	<i>SC-1014-3</i>	<i>2/3/88</i>	<i>TCX</i>	
<i>1927</i>			<i>TCX</i>	
<i>1928</i>			<i>TCX</i>	
<i>1929</i>			<i>pH, Cond, NO₃-, CL, Hard Cr</i>	
<i>1930</i>			<i>pH Cond</i>	
<i>1931</i>			<i>pH Cond</i>	
<i>1932</i>			<i>pH Cond</i>	
<i>1933</i>			<i>Cd, Cu, Zn, Cr Tot</i>	
<i>U-04 1934</i>			<i>EPA 601</i>	
<i>1935</i>			<i>602</i>	
<i>1936</i>			<i>TCL</i>	
<i>1937</i>			<i>TCL</i>	
<i>1940</i>			<i>TCL</i>	
<i>1941</i>			<i>TCL</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

[Signature]

Phone: _____

SHIP TO:

CRC

Garden Grove

ATTENTION: _____

Phone No. _____

Relinquished by: (Signature)

[Signature]

Relinquished by: (Signature)

Relinquished by: (Signature)

[Signature]

Relinquished by: (Signature)

Received by: (Signature)

[Signature]

Date/Time

2/3/88 4:28 PM

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by*: (Signature)

[Signature]

Date/Time

2/13 4:50 PM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-04/1992</i>	<i>55-1014-3</i>	<i>2/3/88</i>	<i>TOX</i>	
<i>1943</i>			<i>TOX</i>	
<i>1944</i>			<i>TOX</i>	
<i>1945</i>			<i>TOX</i>	
<i>1946</i>			<i>pH, Cond, NO₃, CL₂, Hex Cr</i>	
<i>1947</i>			<i>pH, Cond</i>	
<i>1948</i>			<i>pH, Cond</i>	
<i>1949</i>			<i>pH, Cond</i>	
<i>1950</i>			<i>CD, Cu, Zn, Cr Tot</i>	
<i>W-00 1950</i>			<i>EPA 601</i>	
<i>W 1952</i>			<i>602</i>	
<i>W-10 1953</i>			<i>EPA 601</i>	
<i>1954</i>			<i>602</i>	
<i>1955</i>				

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

SHIPPING INFORMATION

Jim TURNER

Phone: 213 860 5559

SHIP TO:

CAL

Carolina Beach

ATTENTION:

Phone No.

Shipper

Kleinfelder

Address

Artesia

Date Shipped

2/3/88

Shipment Service

CAL

Airbill No.

Cooler No.

Relinquished by: (Signature)

Jim Turner

Received by: (Signature)

[Signature]

Date/Time

2/3/88 4:25 P.

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

[Signature]

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Receive for laboratory by: (Signature)

[Signature]

Date/Time

2/3 4:50 PM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<u>W-10-1957</u>	<u>SD-1011-3</u>	<u>2/3/88</u>	<u>TCL</u>	
<u>1958</u>			<u>TCL</u>	
<u>1959</u>			<u>TCL</u>	
<u>1960</u>			<u>TCL</u>	
<u>1961</u>			<u>TOX</u>	
<u>1962</u>			<u>TOX</u>	
<u>1963</u>			<u>TOX</u>	
<u>1964</u>			<u>TOX</u>	
<u>1965</u>			<u>pH, Cond, NO₃, Cl₂, H₂O₂ Cr</u>	
<u>1966</u>			<u>pH, Cond</u>	
<u>1967</u>			<u>pH Cond</u>	
<u>1968</u>			<u>pH Cond</u>	
<u>1969</u>			<u>Cd, Cu, Zn Total Cr</u>	
<u>W-9 1970</u>			<u>ENR GCL</u>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

- (4) _____
- (5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Tim TURNER

Phone: 860 555 9

SHIP TO:

CRC

Carda Grove

ATTENTION:

Phone No.

Relinquished by: (Signature)

Tim TURNER

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

SHIPPING INFORMATION

Shipper

Kleinfelder

Address

Artesia

Date Shipped

2/3/88

Shipment Service

CRC

Airbill No.

Cooler No.

Received by: (Signature)

[Signature]

Date/Time

2/3/88 4:25 PM

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by: (Signature)

[Signature]

Date/Time

2/3 4:50 PM

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
66-09-1971	SC-1014-3	2/3/88	GM 602	
1974			TCC	
1975			TOL	
1976			TOL	
1977			TOL	
1978			TOX	
1979			TOX	
1980			TOX	
1981			TOX	
1982			pH, cond, NO ₃ , CL, H ₂ O ₂	
1983			pH, cond	
1984			pH, cond	
1985			pH, cond	
1986			CD, Cu, Zn, Cr Tot	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

- (4)
- (5)

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Edel

Phone:

SHIP TO:

CRL

Garden Grove CA

ATTENTION:

Celine Hanks

Phone No.

Relinquished by: (Signature)

Mark Edel

Relinquished by: (Signature)

R. Ally

6:45 P.m.

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

R. Ally

Date/Time

2/4/88 5:00 P

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by*: (Signature)

Don Binkley

Date/Time

2/4/88 6:45

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-08-1987</i>	<i>50-PH-3</i>	<i>2/4/88</i>	<i>EPA 601</i>	
<i>1988</i>			<i>602</i>	
<i>1989</i>			<i>TOL</i>	
<i>1990</i>			<i>TOL</i>	
<i>1991</i>			<i>TOL</i>	
<i>1992</i>			<i>TOL</i>	
<i>1993</i>			<i>TOL</i>	
<i>1994</i>			<i>TOL</i>	
<i>1995</i>			<i>TOL</i>	
<i>1996</i>			<i>TOL</i>	
<i>1997</i>			<i>pH, cond, NH₄ CL, H₂O₂ C₁</i>	
<i>1998</i>			<i>pH, cond</i>	
<i>1999</i>			<i>pH, cond</i>	
<i>2000</i>			<i>pH, cond</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) *Send invoice to So. Calif. Chem.*

(5) *Send results to Ken Durand*

K0128882-CA

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Eklund

Phone: _____

SHIP TO:

CEL

Graden Grove Co

ATTENTION:

Celina

Phone No. _____

Relinquished by: (Signature)

Mark Eklund

Relinquished by: (Signature)

R. C. C.

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

R. C. C.

Received by: (Signature)

Received by: (Signature)

Receive for laboratory by*: (Signature)

Don Binkley

Date/Time

2/4/88 5:00 P.

Date/Time

Date/Time

Date/Time

2/4/88 6:45

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>2001</i>	<i>50-1014-3</i>	<i>2/4/88</i>	<i>Cd, Cu, Zn, Pb Cr</i>	
<i>W-00-2002</i>			<i>EPA 601</i>	
<i>2003</i>			<i>602</i>	
<i>W-14-2004</i>			<i>EPA 601</i>	
<i>2005</i>			<i>602</i>	
<i>2006</i>			<i>TOC</i>	
<i>2007</i>			<i>TOC</i>	
<i>2008</i>			<i>TOC</i>	
<i>2009</i>			<i>TOC</i>	
<i>2010</i>			<i>TOX</i>	
<i>2011</i>			<i>TOX</i>	
<i>2012</i>			<i>TOX</i>	
<i>2013</i>			<i>TOX</i>	
<i>2014</i>			<i>pH, cond, NH₄, Cl₂, Hex Cr</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Max Eddy

Phone: _____

SHIP TO:

CRC

Capaden above CA

ATTENTION:

Celins

Phone No. _____

Relinquished by: (Signature)

Max Eddy

Relinquished by: (Signature)

Max Eddy

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Max Eddy

Received by: (Signature)

Received by: (Signature)

Receive for laboratory by*: (Signature)

Don Bunkley

Date/Time

2/4/98 5:00 P.M.

Date/Time

Date/Time

Date/Time

2/4/98 6:45

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-74-2015</i>	<i>50-1014-3</i>	<i>2/4/98</i>	<i>pH con 1</i>	
<i>2016</i>			<i>pH con 1</i>	
<i>2017</i>			<i>pH con 1</i>	
<i>2018</i>			<i>CD, Cu, Zn, Pb, Cr</i>	
<i>W-63-2019</i>			<i>2 EPA con 1</i>	
<i>2020</i>			<i>2 con 2</i>	
<i>2021</i>			<i>TCL</i>	
<i>2022</i>			<i>TCL</i>	
<i>2023</i>			<i>TCL</i>	
<i>2024</i>			<i>TCL</i>	
<i>2025</i>			<i>TOX</i>	
<i>2026</i>			<i>TOX</i>	
<i>2027</i>			<i>TOX</i>	
<i>2028</i>			<i>TOX</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

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- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Ehl

Phone: _____

SHIP TO: _____

CRC

Graden Grove

ATTENTION: *Carlton*

Phone No. _____

Relinquished by: (Signature)

Mark Ehl

Relinquished by: (Signature)

71-CLG

6:45 P.M.

Relinquished by: (Signature)

Relinquished by: (Signature)

SHIPPING INFORMATION

Shipper *Kleinfelder*

Address *Artesia*

Date Shipped *2/4/88*

Shipment Service *CLL*

Airbill No. _____

Cooler No. _____

Received by: (Signature)

[Signature]

Date/Time
2/4 5:00 P.M.

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by*: (Signature)

Ann Binkley

Date/Time
2/4/88 6:45

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<i>W-6B-2029</i>	<i>SV-10143</i>	<i>2/4/88</i>	<i>pH, cond, NO₃, CL, H₂O₂ Cr</i>	
<i>2030</i>			<i>pH, cond</i>	
<i>2031</i>			<i>pH, cond</i>	
<i>2032</i>			<i>pH, cond</i>	
<i>2033</i>			<i>CO₂, Cu, Zn, Tot Cr</i>	
<i>W-07-2034</i>			<i>EPA 601</i>	
<i>2035</i>			<i>602</i>	
<i>2036</i>			<i>TOC</i>	
<i>2037</i>			<i>TOC</i>	
<i>2038</i>			<i>TOC</i>	
<i>2039</i>			<i>TOC</i>	
<i>2040</i>			<i>TOX</i>	
<i>2041</i>			<i>TOX</i>	
<i>2042</i>			<i>TOX</i>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- summary of analytical methodology and QA work (blanks, spikes, duplicates)
- dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

Mark Ehlf

Phone: _____

SHIP TO:

CRL

Garden Grove CA

ATTENTION: Celins

Phone No. _____

SHIPPING INFORMATION

Shipper Kleinfelder

Address Artesia

Date Shipped 2/4/89

Shipment Service CRL

Airbill No. _____

Cooler No. _____

Relinquished by: (Signature)

Mark Ehlf

Received by: (Signature)

R. O. [Signature]

Date/Time

2/4 5:00 P.M.

Relinquished by: (Signature)

[Signature]

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Receive for laboratory by*: (Signature)

Don Bunker

Date/Time

2/4/89 6:45

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
<u>2043</u>	<u>50-1014-3</u>	<u>2/4/89</u>	<u>TOX</u>	
<u>2044</u>	<u> </u>	<u> </u>	<u>pH cond NO₃, CC, Cr (Hex)</u>	
<u>2045</u>	<u> </u>	<u> </u>	<u>pH cond</u>	
<u>2046</u>	<u> </u>	<u> </u>	<u>pH cond</u>	
<u>2047</u>	<u> </u>	<u> </u>	<u>pH cond</u>	
<u>2048</u>	<u> </u>	<u> </u>	<u>CD, Cu, Zn, Cr Tot</u>	
<u>W-00-2049</u>	<u> </u>	<u> </u>	<u>EM 601</u>	
<u>2050</u>	<u> </u>	<u> </u>	<u>602</u>	
<u>W-00-2053</u>	<u> </u>	<u> </u>	<u>EM 601</u>	
<u>2054</u>	<u> </u>	<u> </u>	<u>602</u>	
<u>Trip Blank</u>			<u>601 & 602</u>	
			<u>per Alina A.</u>	
			<u>2/05/89</u>	
			<u>10: [Signature]</u>	

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) _____

(5) _____

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

SHIPPING INFORMATION

Phone: 213-860-5559

SHIP TO:

CHEMICAL RESEARCH LABORATORIES INC

7440 LINCOLN WAY

GARDEN GROVE, CA. USA

92641

ATTENTION:

Phone No.

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Shipper

KLEINFELDER

Address 17100 PIONEER BLVD. SUITE 350

ARTESIA, CA. USA

92641

Date Shipped 5/5/88

Shipment Service CC

Airbill No.

Cooler No.

Received by: (Signature)

Date/Time

5/5/88 9:30 AM

Received by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Receive for laboratory by*: (Signature)

Date/Time

5/5/88 5:35 PM

*Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to KLEINFELDER, 17100 Pioneer Blvd., Suite 350, Artesia, CA 90701

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt
W-MW1-2055	50-1015-04	5-3-88	total Chrom.	
W-MW5-2056	50-1015-04	5-4-88	total Chrom.	
W-MW4A-2057	50-1015-04	5-4-88		
W-MW4-2058	50-1015-04	5-4-88		
W-MW10-2059	50-1015-04	5-4-88		
W-MW7-2060	50-1015-04	5-4-88		
W-MW11-2061	50-1015-04	5-4-88		
W-MW6B-2				
W-MW9-2062	50-1015-04	5-5-88		
W-MW6B-2063	50-1015-04	5-5-88		
W-MW8-2064	50-1015-04	5-5-88		
W-MW2-2065	50-1015-04	5-5-88		
W-MW3-2066	50-1015-04	5-5-88		

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4) RESULTS TO KEN

(5) PO #